

SEQUENCE PROTOCOL

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<120> Detection of Differential Gene Expressions

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<140> 100 04 102.7-41

<141> 2000-01-31

<160> 885

<170> PatentIn Ver. 2.1

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<210> 27
<211> 421
<212> DNA
<213> Homo sapiens

<400> 27
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tatgcaagtc caaaaaatga aggtatgttt aactgccaca ttcactcgaa gccattcat 180
ctccttcagc atcccaatga agtacacgat ctgcttagct aaataagggtg gcacacgcgc 240
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agcttcactt tctcacaggt catcatcctc atctngggag agcagtcgtc tggagcaacc 360
tctaaaatca tgcctgtact tgtgctggcc aaagctgggg tccatgacca cntccaggtg 420
n 421

<210> 28
<211> 426
<212> DNA
<213> Homo sapiens

<400> 28
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attcctggaa acagttgac cagagctggc tgctagtggg gcgaccttac ccaagtttga 180
taaagatcat gatgtaatgt tatttttgaa gatgtatgat cccaaaacgc ggactttgaa 240
ttactgtggg catatctaca caccaatata ctgtaaaaata cgtgacttgc tcccagttat 300
gtgtgacaga gcaggattta ttcaagatac tagcctttat cctctatgga ggaagttaaa 360
ccgaattttaa cagagagaat tccaggacta tgacgtgtct ccttgataaa gcccttgat 420
gaacta 426

<210> 29
<211> 558
<212> DNA
<213> Homo sapiens

<400> 29
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agatgagtaa	ccagagggca	tgaaagggtg	agaacatttg	acttccctgc	aaaccttggt	130
atagatcact	tccctttctg	taggaaagga	aaggcaccaa	agagcacaat	gagtacaaga	240
aagcgtcgtg	gtggagcaat	aaattctaga	caagctcaga	agcgaactcg	ggaagcaacc	300
tccacccctg	agatctccct	ggaagcagaa	cccatagaac	tctgtggaac	tgctggagat	360
gaaattgttg	acctcaattg	tgaatcttta	gagcctgttg	tggttgatct	gactcacaat	420
gactctgttg	tgattgttga	cgaaagaaga	agaccaagga	ggaatgctag	gaggctgccc	480
caggaccatg	ctgacagctg	tgtgggtgag	agtgacgatg	aggagtctgc	cagggacaga	540
gacgtatatg	tgactaac					558

<210> 30
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 30						
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ttctcttact	taaactctga	aaacaacaga	aacttttgtct	tcctactctt	acattctaaa	180
ccgatgaaat	ctttaacaga	ttacacttta	aatatctact	catcattttc	tctctcagag	240
tcctagcttg	agttgcactg	catgtracnt	gtgcatcttg	ttctcttcat	ttaatgctgt	300
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ttaatctgct	tactgcttaa	gacagtantt	ccataatcaa	tgatgggttc	atagagaaac	420
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<210> 31
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 31						
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ccgatatggc	tgagatcgag	aaattcgata	agtcgaagtt	gaagaaaaaca	gaaacgcgaag	120
agaaaaatct	tctgccttca	aaagaaaaca	ttgaacaaga	gaagcaagct	ggcgaatcgt	180
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ttcttttagc	tgtttaacct	tgtaagatgc	aaagaggttg	gatcaagttt	aaatcgactg	300
tgctgcccc	ttcacatcaa	agaatcagaa	ctactgagca	ggaaggcctc	ccttgacctc	360
cccacccatc	tgatggctct	gctagcagag	agggaaaaaga	acttgcatgt	tggtgaagga	420
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<210> 32
 <211> 623
 <212> DNA
 <213> Homo sapiens

<400> 32						
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caganccagg	cccaaagcat	ctggcttggg	tgctgcattc	tgggtgtgat	ggtgcagttg	180
tggctcctct	gacgatctta	ggggggcctc	ttctcctgag	agccgcctgg	tacaccgctg	240
gtattgtggg	aggcctctct	actgtggcca	tgtgtgcgcc	tagtgagaag	tttctcgaac	300
atgggaggtc	ccctgggagt	gggcctgggt	cttgtctttt	gcgtcttctc	tgggggtctat	360
gtttcttccc	cctacctctg	tgggctgggt	cactctgtac	tcagtggcaa	tgtatgggtg	420
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aataacaccc	atgtatggag	ctccaaaagta	tgatcccatc	aatttcgatg	ttganatcta	540
catngataca	attaatatat	ttatgcgagt	tgcantaatg	ctagcaactt	gaagcaacag	600
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<210> 33
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 33
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gatgtctaga aattaattat gtttaagttta attttaatttg aggaggggtga cgggcgggtg 120
gtgcgtactt cattgctcaa ttcaatttaag ctctctattc ttaatttact actaaatcct 180
ccttagtctt ttagtttcat aaaggggtata gtaatgttct ttataaagaa aatgttagccc 240
atttcttccc atttcatttg ctacaccttg acctaacgtt tttatgtttg attcttttgc 300
ttactttaat accttttttag gggtttgctga agatggcggg atataggctg aattagcaag 360
agatgggtgag gtagagcggg gtttatccga ttatagaaca ggctccctta gatggatata 420
aagtaaccgc aagtcctntg aagttttaag cnatgggctag tagt 464

<210> 34
<211> 308
<212> DNA
<213> Homo sapiens

<400> 34
ccgcgagacg tcgggtgaggt gggactgggtg actctcagaa gctcctcggg gcacttttgt 60
ctcggcagac tgggaggggag caggcgctcg cggaanaccg tcacttactg gggttgttca 120
cctgttttcca gcaagttttg gtctttttggg cagaagcctg ttgaccaact gtggggccacc 180
acagtctttg acagaaagggt ggcaccggga gtgggtttgtg gccctcacta ccaaagccac 240
gggaagccca atttccagta ggattgcccg ttttgaattc ttttcccaaa agcnaaatng 300
agtttnac 308

<210> 35
<211> 435
<212> DNA
<213> Homo sapiens

<400> 35
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agcctccagg aacatttcaag cagcagtcag gagggaaaaa tgtttcaata gccagtttt 120
cttcaaagta tgccagagaa tacaatccaa ttcaactgcta caattcatag aattngtcag 180
tgttttcttg agacgctgag gttcaactgtt ggcagtttcc aagtggccgc atgtgctgct 240
cagaaaggcc agcgnagach agctgcccgg aagaactttc actgctggaa aactgctccg 300
ctcccaagga aagcccaagg aaggctgggc cgtggggtca caacttcac ctttctccag 360
ggtcacccag ctccacgtca cttgaggtca atgtcgtcnt ccacaggga gctcaccatc 420
ctttgcccac ccagg 435

<210> 36
<211> 505
<212> DNA
<213> Homo sapiens

<400> 36
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tgacaacatt aatatacttt aaatacctgg gatgtggtct ggtacatata tgggtggatgc 120
tgtgtgtgta ttatatatac tactatatta tgaacacctg agtcatggaa gtccttgcaa 180
agtgtgcctt aaaatcctca acctttttta cttttctcat acatcgaagt cagtattctt 240
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ttcaaagctt ttccaagcag ttttagctatt tgaaaagggg gcttttctaac ttcattcttt 480
caaaataaac tgctgggcat gcgtt 505

<210> 37
<211> 451
<212> DNA
<213> Homo sapiens

<400> 37
tntttttgac tttaaatgat aaacttttat tctgaatata ctgttttttg acaagattta 60
acacaacatt ttctgggatt ataaatatat tataacagta ttatacaaa ttttcaaaaa 120
tgtttttatc aggttaggta attttcacia aagtgtcaag agaacaaaa aaagggggaga 180
aaagatctat tgttcacaaa agccagttgg ccttttgcac gaatgcacac catttttaata 240

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aaagtattcc taaaagcatg atccgacact catacaaacac aacaaaaaag acagcttttac 300
taggtcacat tataaactca actggcatct acacaagaca gtatcccat agtttcagtg 360
gaatttgaga taacttctgt gaactagaaa taaggtagat gaagagttgt ccaattcttc 420
naaaatctgg aatttttttt cacactccaa n 451

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<210> 38
 <211> 245
 <212> DNA
 <213> Homo sapiens

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<400> 38
gatttgcggt cttgtaccct taagagctac agctagagaa accttcacgg ggtggagaga 60
ggattctaaag gcttttctag cgtgaccctt ttcagtagtg ctagtccctt ttttacttga 120
tcttaattggc aagaaggcca caaagggtact tttccttttt tagctcagga aatatgtcag 180
gctcaaacca cttctcaggc agtttaaatgg acactagttc attgttacat gaagtgatag 240
atagc 245

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<210> 39
 <211> 403
 <212> DNA
 <213> Homo sapiens

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<400> 39
aattcaaagg taaatacact gagtaaagag ctacattcag agttctcaga agttatgaat 60
gaaatctggg ctagtgatca aatcagaagt gccgtcctta tctcatcaaa gccaggctgc 120
tttattgcag gtgctgatat caacatgtta gccgcttgca agacccttca agaagtaaca 180
cagctatcac aagaagcaca gagaatagtt gagaaacttg aaaagtccac aaagcctatt 240
gtggctgcca tcaatggatc ctgcctggga ggaggacttg aggttgccat ttcattgcaa 300
tacagaatag caacaaaaga cagaaaaaca gtattaggta ccctgaagtt ttgctggggg 360
ccttaccagg agcaggaggc acacaaaggg ctgccccaaa tgg 403

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<210> 40
 <211> 527
 <212> DNA
 <213> Homo sapiens

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<400> 40
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tggggacatg gaagagttag cctgggtcagg tgaaagcagc cattaaacat gcccttagcg 120
caggctaccg ccacattgat tgtgcttctg tatatggcaa tgaaactgag attggggagg 180
ccctgaagga gagtgtgggg tcaggcaagg cagtccctcg agaggagctg tttgtgacat 240
ccaagctgtg gaataactaag caccaccctg aggatgtaga acctgccttc cggaagacac 300
tggctgatct gcaactggag tatttggacc tctatttgat gcaactggccc ttaatgcctt 360
tgaagccggg gagacaatcc ccttttccca agaaatgccg aatgggaact gtcagatatg 420
actccaaact actattaaag agacctggaa ggctcttgga agtactgggt gcnaaagggg 480
ctgggtgaaag ccctggggcct tgtccaaact tcaacagtcg gcaagat 527

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<210> 41
 <211> 449
 <212> DNA
 <213> Homo sapiens

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<400> 41
cataattcag aacagcacac tgggagaagc agagattgag cgtgnngggng agtaatcctg 60
agagagatgc aggaagttag aaccaacttg caagaagtgt tttttgatta tcttcatgct 120
acanctatca aaatactgca cttggacgga caattctggg accaactgaa aatatcaaat 180
ctataaaatcg taaggacctt gtggattaca taaccacaca ctacaaggga ccaagaattg 240
tactggctgc cgccggaggt gtttgccata acgaactgct ggagttagca aagttccatt 300
ttgggtgactc tttgtgctca cacaaaagga gctataccag ctctgccttc ctggcaagtt 360
cactggaagt gaagattcgg ggtgaaggga tgaccaggat gcccttggg gaaccttggc 420
aataactggc ttganccaat ttggtcggg 449

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<210> 42

<211> 411
<212> DNA
<213> Homo sapiens

<400> 42
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gcaaccgctt ccgcctgcca cccggggagt atgtgggtgt gccctccacc ttcgagccca 120
ataaggaggg cgacgttcgt gctggcgttc attctcagag aagagtgtgt ggactgtgga 180
gctggatgac cagatccagg ccaatctccc cgatgagcaa gtgctctcag aagaggagat 240
tgacgagaac ttcaaggccc tcttcaggca gctggcaggg gaggacatgg agatcagcgt 300
gaaggagttg cggacaatcc tcaataggat catcagcaaa cacaaagacc tgcggaccaa 360
gggcttcagc taagagtcgt gccgcagcat ggggtgaacct catggatcgt t 411

<210> 43
<211> 455
<212> DNA
<213> Homo sapiens

<400> 43
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tttttaacca caaacaagga gaactcccta aattgaactt gtctaaatcc agcttttctc 180
aacctccttc ctaagactta gacaaattag tcattgagag catctcctga ttaaatgttc 240
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ctgaagagat gctccttatt ctggacagca atcagctggc tctccttaag aaatgggtgg 420
gtcaaaaggg nacatgagct catgaaatgt tcagt 455

<210> 44
<211> 312
<212> DNA
<213> Homo sapiens

<400> 44
ctcacntgta gnagatatgg agcggagaga cgttgacttt gagcttatca aagtagaagg 60
caaagtgggc ggcaggctgg aggacactaa actgattaag ggcgtgattg tggacaagga 120
tttcagtcac ccacagatgc caaaaaaagt ggaagatgct aagattgcaa ttctcacatg 180
tccatttgaa ccacccaaac caaaaacaaa gcataagctg gatgtgacct ctgtcgaaga 240
ttataaagcc cttcagaaat accgaaaagg agaaatttga agagatgatt caacaaatta 300
aagagactgg tt 312

<210> 45
<211> 600
<212> DNA
<213> Homo sapiens

<400> 45
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ggaagcgggt cgttatgaga gtcgacttca atgttccctat gaagaacaac cagataacaa 180
acaaccagag gattaaggct gctgtcccaa gcatacaatt ctgcttggac aatggagcca 240
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agctagggga tgtctatgtc aatgatgctt ttgcactgtc acagagccac agctccatgg 600

<210> 46
<211> 538
<212> DNA
<213> Homo sapiens

<400> 46

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catcattcan	agggacctta	aacoggaaaa	cattttgtta	aatgaagata	tgcacatcca	180
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ctttccagaa	aaattcttcc	ctaaggcaag	agacctcgtg	gagaaacttt	tggttttaga	480
tgccacanag	cggtttaggt	gtgaggaaat	ggnaggatac	ggacctctta	aagcacnccc	540
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<210> 47
 <211> 485
 <212> DNA
 <213> Homo sapiens

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<210> 48
 <211> 293
 <212> DNA
 <213> Homo sapiens

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tagcagagta	tcacaaattg	gctagaaaaat	taaaactttat	tccctaaagg	tgctgagaat	180
tccaaagggt	atgacttttg	aattaagttt	aatccccgag	gctgggtgcaa	cttgcccttgt	240
caaatacagg	gcncaaagntt	tatgtacccc	cttaagggaac	ncccgaaatgg	aaa	293

<210> 49
 <211> 632
 <212> DNA
 <213> Homo sapiens

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actgcagaga	aagagcgatt	atttcttcta	tatgtctaagc	agtgggtggag	agaatatattg	180
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<210> 50
 <211> 582
 <212> DNA
 <213> Homo sapiens

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<210> 51
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 51						
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cgcacacgct	cggcgctgcg	atccgcgcat	ataacgatat	ttggatttga	cctgcatttt	180
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cctatcagca	gtatcctggg	gaataaatat	ggaagtcgta	tagtcatgat	tgttgggtggc	480
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<210> 52
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 52						
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ctgaattccg	accccagtt	cgtacttgcc	cagatagtcg	ggaccaccca	cgacctgctg	180
gacatctgtc	tgaagcgggc	cacggtgcag	cgcgcgcana	tggtgttcca	gcacgccctg	240
ccccaggagg	gaaagccaat	caccaaccag	aagagctcag	ggcgatgctg	gatcttttct	300
tgtctgaatg	ttatgaggct	tccattcatg	aaaaagttaa	atattgaa		348

<210> 53
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 53						
ggcggcgncg	gcggcgctant	angnagggtg	cacagagaac	acccctagca	tgaacagtgt	60
gaggattcca	ccagcttttt	caccatgaag	gagacagacc	gggagccgtt	gcgacanagg	120
tgcaaagggt	tgctgggatg	ctccagcgcc	cggaccagct	ggacaagggt	gagcagtatc	180
gcaggagaga	agcgcggaag	aaggcctccg	tggacangaa	tttgaagaga	gcggatctga	240
aagctcaggt	gcccgatctt	gtcctgtggg	tcagccgtcc	tggggccaag	ttgtgggtgt	300
ggctgaacag	caggaactcc	cccgcgccaa	agccagttga	agttcctgac	cgttc	355

<210> 54
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 54						
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ggccactgga	gcagagggtg	tggatctgct	ggtggccatg	tgtagggcag	cttttagagtc	120
ccctagaaaag	agcatcatct	ttgagcctta	tccctctgtg	gtggacccca	ctgatcccaa	180
gactctggcc	tttaacctta	agaagaagaa	ttatgaagcg	gcttcagaaa	gctctgggat	240
agtgtgatgt	ctattccggg	agatgaccca	gggtccataa	tttggaatc	aagaaaacaga	300
tggacaaaagt	ttggatcccc	ctgggcccac				330

<210> 55
<211> 451
<212> DNA
<213> Homo sapiens

<400> 55
tcngacagaa aagctgtacg ttatatgttg gaaatctttc tttttacaca actgaagaac 60
aaatctatga actcttcagc aaaagtgggt acataaagaa aatcattatg ggtctggata 120
aaatgaagaa aacagcatgt ggattctgtt ttgtggaata ttactcacgc gcagatgagg 180
aaaacgccat gcggtacata aatgggacgc gtctggatga ccgaatcatt cgcacagact 240
gggacgcagg ctttaaggag ggcaggcaat acggccgtgg ngaatctggg ggctagggtc 300
cgggatgaag tatccggcag gactaccgat gctgggaaga ggaggctaag gggaaaactg 360
gcacagaact agtgagtggg tgagagctct gtcagtgaac aacactcctt tggcctgttt 420
gaatttgctg aagaacatca cctaaagtcg g 451

<210> 56
<211> 355
<212> DNA
<213> Homo sapiens

<400> 56
ggatgtggag tgatgggaac ggttcacata ctgactgtgg atctcaagta taccattgaa 60
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gtgcgggacg gcagtgtggg cagggccctg ctccctccag attactacct ggttacagtc 180
atgctgtcag gcatcaagtg cccaactttt cgacgggaag cagatggcag tgaaactcca 240
gagccttttt ctgcagaagc caaatttttt actgagtcgc gactgcttca gagagatgtt 300
cagatcattc tggagagctg ccacaaccag aacattctgg gtaccatcct tcattc 355

<210> 57
<211> 468
<212> DNA
<213> Homo sapiens

<400> 57
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gtcctgcaaa tgaaggagga ggatgtcctt aagtctccttg cagcaggaac ccacttaggt 120
ggcaccaatc ttgacttcca gatggaacag tacatctata aaaggaaaag tgatggcatc 180
tatatcataa atctcaagag gacctgggag aagcttctgc tggcagctcg tgcaattgtt 240
gccattgaaa accctgctga tgtcagtgtt atatcctcca ggaatactgg ccagaggggt 300
gtgctgaagt ttgctgctgc cactggagcc actccaattg ctggccgctt cactcctgga 360
accttcacta accagatcca ggcagccttc cgggagccac ggcttcttgt ggttactgac 420
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<210> 58
<211> 394
<212> DNA
<213> Homo sapiens

<400> 58
acagtgtgcc ttcagccoga ggactcggac tcggctcaga ctccggttct ttgtttcctg 60
gaaggtggca cggggactca ggcggccagg gtccagggcc aggtccaagg tcacagagct 120
ttggaggtca cctgtaggcg gtccagggga cggcgttgag acaggaactc cttgggtgga 180
caatgagcag ggtgggagac aggggocctgg gatgggggac tccagaggtc aggggtgtct 240
gggttggagg ggaggggact cacggctccc aagcagggtt ttagaacgtt tgtcaatgta 300
aaggcagatg ttggactgta ccagggctctg ctccagagacc acctgctccc gacactcaaa 360
cgcagacctg gggatctcgg caggtatgaa ctgc 394

<210> 59
<211> 296
<212> DNA
<213> Homo sapiens

<400> 59
gccaggcgta ctgacagggt gaccagcgga ctgggtggaga tggcgacgct ctctctgacc 60

gtgaattcag	gagacccctcc	gctaggagct	ttgctggcag	tagaacacgt	gaaagacgat	120
gtcagcattt	ccgttgaaga	agggaaagag	aataattcttc	atgtttctga	aaatgtgata	180
ttcacagatg	tgaattctat	acttcgctac	ttggctagag	ttgcaactac	agctggggta	240
catggctcta	atctgatgga	ccatacttta	gattgatcac	ttggttggta	ggtttta	296

<210> 60
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 60	cggaactccc	gggaagtgga	ccggcagaag	agggggctag	ctagctagtc	tgtgcggacc	60
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	gcgacgcgcg	cgcaggaggg	tgtgaggagt	gtgtggaaca	ggacccggga	cagaggaacc	180
	atggctccgc	agaacctgag	caccttttgc	ctgttgctgc	tataacctat	cggggcggtg	240
	attgccggac	gagatttcta	taagattctta	ggggtgcctc	gaagtgcctc	tataaaggat	300
	attaaaaagg	cctataggaa	actagccctg	cagcttcac	ccgaccggaa	ccctgatgat	360
	ccacaagccc	aggagaaaatt	ccaggatctg	gggtgctgct	atgagggttc	gtcagatagt	420
	gagaac						426

<210> 61
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 61	cgcttctctgt	acaaggggcga	ggggctgaac	aagatcagcc	atcggggact	acctggggga	60
	gagggaaaga	ctgaacctgg	cagtgcctcca	tgcttttgtg	gatctgcatg	agttcaccga	120
	cctcaatctg	gtgcaggccc	tcaggcagtt	tctatggagc	tttcgcctac	ccggagaggc	180
	ccagaaaatt	gaccggatga	tggaggcctt	cgcccagcga	tactgcctgt	gcaaccctgg	240
	ggttttccag	tccacagaca	cgtgctatgt	gctgtccttc	gccgtcatca	tgctcaacac	300
	cagtctccac	aatcccaatg	tccgggacaa	gccgggctg	gagcgctttg	tgcccatgaa	360
	ccggggcatc	aacgagggcg	gggacctgcc	tgaggagctg	ctcaggaacc	tgtacgacag	420
	catccgaaat	gagcccttca	agattcctga	ggatgacggg	a		461

<210> 62
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 62	atcaacaagg	agatgctaaa	ggttggaaaag	cagaaaagcct	tggtcaagga	tacagagctg	60
	gacttgcattg	ggtattagga	gatgctgaag	aactgccctt	tgatgatgac	aagtttgata	120
	tttacaccat	tgcttttggg	atccggaatg	tcacacacat	tgatcaggca	ctccagggaag	180
	ctcatcgggt	gctgaaacca	ggaggacggg	ttctctgtct	ggaatttagc	caagtgaaca	240
	atccctctat	atccaggctt	tatgatctat	atagcttcca	ggatcatcct	gtcctgggag	300
	aggtcatcgc	tggagactgg	aagcctatca	gtaccttgta	gagagtatcc	gaagtttccg	360
	tctcaggaag	agttcaagga	catgatagaa	gatgcaggct	ttcacaagggt	gacttacgaa	420
	ag						422

<210> 63
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 63	agaagttagag	cagaagaaga	agcggacctt	ccgcaagtcc	acctaccgcg	gcgtggacct	60
	cgaccagctg	ctggacatgt	cctacgagca	gctgatgcag	ctgtacagtg	cgccgccaggc	120
	ggcggctgaa	ccggggcctg	cgccggaagc	agcactccct	gctgaagcgc	ctgcgcaagg	180
	ccaagaagga	ggcgccgccc	atggagaagc	cggaagtggg	gaagacgcac	cttcggggaca	240
	tgatcatcct	acccgagatg	gtgggcagca	tggtggggcg			280

<210> 64

<211> 408
<212> DNA
<213> Homo sapiens

<400> 64
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gaacccccctg aaaaaactgt tgatgtggca gcagagaaga aagtgggtgaa aattacatct 120
gaaataccac agactgagag aatgcagaag agggctgaac gattcantgt acctntgagc 180
ttggagagta agaaagctgc tcgggcagct aggtttggga tttcttcagt tccaacaaaa 240
ggctctgtcat ctgataacaa acctatgggt aacttgggat aagctgaagg aaagagctcc 300
aaagatttgg tttgaatgtc tcttcaatct ccagaaagtc ttgaagatga tgaggaaact 360
gaaaaagagg gaaggagcga tttggggatt gtcacaagtt cagctgga 408

<210> 65
<211> 463
<212> DNA
<213> Homo sapiens

<400> 65
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aacggagagg ccgagccaag cggcgccccc tcttatgtct ggaggatgct ggagagtagc 120
ggctggcaaa gctgaaggag ggcgtgctgg agaagcgcag acnnggttgt tgcagctctg 180
gaagaaaaag tgttgcattc tcaccgagga agggctgctg cttatcccg ccaagcagct 240
gcaacaccag cagcagcagc aacagcagca gcagcagcag caacaacagc ccgggcaggg 300
gccggccgag ccgtcccaac ccagtggccc cgctgtcgcc agcctcgagc cgccggtcaa 360
gctcaaggaa ctgcacttct ccaacatgaa gaccgtggac tgtgtggagc gcaagggcaa 420
gtacatgtac ttcactgtgg tgatggcaga gggcaaggag atc 463

<210> 66
<211> 512
<212> DNA
<213> Homo sapiens

<400> 66
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cgacaactcc ggaccacggc cgccaccgaa gctgcttctg ctgcgcctac tgctgttctt 120
gctgccggct ggagctgtgc agggctggga gacagaggag agggcccgga ctgcggaaga 180
ggagtggcac ttctacgcgg gtggacaagt gtaccggga gaggcatccc ggggtatcgg 240
cgccgaccac tccctgcacc taagcaaaagc gaagatttcc aagccagcgc cctactggga 300
aggaacagct gtgatcgatg gagaatttaa ggagctgaag ttaactgatt atcgtgggaa 360
atacttgggt ttcttcttct acccaacttg tttcacattt gtgtgtccaa ctgaaattat 420
cgcttttggc gacagacttg aagaattcag atctataaat actgaagtgg tagcatgctc 480
tgttgattca cagtttacct atttggctgg ga 512

<210> 67
<211> 367
<212> DNA
<213> Homo sapiens

<400> 67
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cgaagaatgc gactcttggc ggacagcgca gtggncaggg ctccggcctg tgctctctag 120
gagcggagcc gtttgcctgg gctggagggg ggcgcacctg gcgctgtgct ccgctgtggc 180
cctagccccct ttggggcttct caagcagccc ttggacatga gtgaggtgtt tgccttccac 240
ctagacagga tccctggggct caacaggacc ctgcccgtctg tgagcaggaa agcagagttc 300
atccaagatg gccgnccatg ccccatcatt ctttgggatg catctttatc ttcagcaagt 360
aatgaca 367

<210> 68
<211> 402
<212> DNA
<213> Homo sapiens

<400> 68

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gtaagaaaca	gaatttccatc	caggtaactac	ttccttttgg	atgtcagtat	ttaatctgag	120
caatgcatg	gtgggcagtg	gaatccttgg	gctttcttat	gccatgggta	atactggaat	180
tgcctctttt	ataattctct	tgacatttgt	gtcaatatat	ttcctgtatt	ctgttcatct	240
ccttttgaag	actgccaatg	aaggagggtc	tttattatat	gaacaattgg	gatataaggg	300
atttggatta	gttgaaagc	ttgcagcatc	tggatcaatt	acaatgcaga	acattggagc	360
tatgtcaagt	tacctcttca	tagtgaaata	tgagtgcct	tt		402

<210> 69
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 69						
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ggcgctcggc	atggctctcc	tgggtgctcg	tctgggtgagc	tgtaccttct	ttctggcagt	120
gaatgggtctg	tattcctcta	gtgatgatgt	gatcgaatta	actccatcaa	atttcaaccg	180
agaagtattt	cagagtgata	gtttgtggct	tgtagaattc	tatgctccat	gggtgtggta	240
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agttgggtgca	gttgatgcag	ataagcatca	ttccttagga	ggtcagtatg	gtgttcaggg	360
atttctctacc	attaagattt	ttggatccaa	caaaaacaga	ccagaagatt	accaagggtg	420
cagaactggg	gaagccattg	tagatgctgc	gctgagtgct	ctgcgccant	cgtgaaggat	480
cgctcggggg	acgaagcggg	ggatacagtt	ctggaaaaca	aggcagaagt	gatagttcaa	540
gtaag						545

<210> 70
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 70						
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atcaatgatg	acctgtccta	ccagatggac	tgccacgccg	tgnagtgcga	gagcaagctc	120
gaggccaaga	aactggccca	cgccatgatg	gaggccttca	ggaagacttt	ccacagtatg	180
aagagcgagc	ggcggatcca	cagcaacagc	tcctccgaag	aggtttccca	ggaattggaa	240
tccgatgatg	gctgaatgaa	cttttagacg	cttnagcaaa	ggcagcattg	gtcacggggg	300
tcaagggaat	tagattgagt	aagcaacggt	tcaattttgg	gatgaaagat	ttccaaatt	359

<210> 71
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 71						
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aagtaccttt	gggagtcacc	ttctctggct	attaaaacct	ggatgaactc	tggtggattt	120
cctgttcggg	ttccttatcc	atgcaccacg	accgaattgg	ccatgattgg	agaagaggaa	180
tgtntccttg	gtctgactga	cagggtgtcg	tttttcatca	atgacattga	ggttgcgtca	240
aatatcacgt	cattttgcagt	atatgatgag	tttttattgt	tgacaaccca	ttcccatacc	300
tgccantgtt	tttgccctgag	ggatgcttca	tttaaaacct	tacaggcccg	cctgagcagc	360
aattcatgtg	ttccatgggg	aagtttctgc	gg			392

<210> 72
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 72						
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cgcagatacc	cacgtaagan	atgtatctnc	tgcttcttgc	ttggcttgc	tttggcagtc	120
actgccactg	gccttgnctt	tggcacatgg	aagcatgcac	ggcgatatgg	aggcatctat	180
gcagcctggg	catttntcat	cctgttggct	gtgctgtgtt	tgggcccggg	ttctttattg	240
gcctgtatga	aggtcagcca	ccctgtccag	aacttctcct	gagcctgatg	acccacagac	300
tgtgcctggg	ccctccctgg	tggggacagt	gacactacga	aggg		344

<210> 73
<211> 311
<212> DNA
<213> Homo sapiens

<400> 73
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ggtagaggctg cagttccatg atgtggccgg cgacatcttc caccagcagt gcaagcgcaa 120
cgagctggtn atccgcgtgc agcccaacga ggccgtgtac accaagatga tgaccaagaa 180
gcccggcatg ttcttcaacc ccgaggagtc ggagctggac ctgacctacg gcaacagata 240
caagaacgtg aagctccctg acgcctatga ggcctcctc ctggacgtct tctgcccggac 300
cagatgcact t 311

<210> 74
<211> 176
<212> DNA
<213> Homo sapiens

<400> 74
ctgttccttg gaaatgtttg atgctactct gaaagatcga gaactgagct ttcagtcggc 60
tccaggtaact accatgtttc tgcattggct agtgggaatg gtatatgnt tctactttgc 120
ctccttcatt ctactactga gagaggtact tngacctggt gtccctgtgg ttctaa 176

<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

<400> 75
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cctcattcgc tacatctgtg gggtagtcca ncctttctaag gaagtactga gttcagatat 120
cttgccccgg tgggccatca ttgggtggct cctgacaacg tgcacgtcaa atgtcgctgc 180
ctccaatgcc aagctggctt tgttttatga ctggctgttc tttagtccag acaaggatag 240
cattatgaac atagaaccag ccacccctggt catgca 276

<210> 76
<211> 310
<212> DNA
<213> Homo sapiens

<400> 76
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atgccatagt attgtgcaag cataaaggca tcacaagtgg tcgggctcag ctactctggt 120
tctacagacg tttcttcttt gggatagcgt ctctcaccat cttgattgct tacaaacgga 180
agcgccaaaa acaaacttga agttgtctga aagcttgctc tacactttta cattcatcct 240
cacccttttt tttgtggggg agaggaggtt gcagtanttt actcagtgat ctttctactt 300
tctagaaact 310

<210> 77
<211> 295
<212> DNA
<213> Homo sapiens

<400> 77
cctcactgct atggggccga acaagaagaa gaagcgagat ggtgacgacc ggcggccgag 60
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gaaggctcag cgaagaagg cagccattga ggagattaaag cagcggctga aagaggagca 180
gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240
ggctctngag gaggcagatg agctggaccg gttgggtgaca gcaaagacgg agtcg 295

<210> 78
<211> 406
<212> DNA
<213> Homo sapiens

<400> 78
caaaaaagctg gtngcctcca gacccgactt tttcaaccag gagcaccaga cacgggatgt 60
ggactgtgtc ctcacaacag gagaagtgtt cagggttgctg gnggnagagg gggctcgggg 120
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cagagggtca aacgagggcg ctgccccctac cactacgtgn aggtcatggc ctgccccctca 360
gggtgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 79
<211> 288
<212> DNA
<213> Homo sapiens

<400> 79
aagaaggaga ggaaggagaa gagacggcag agganggggg aagagtgcag cctgcctggc 60
ctcacttgct tcacgcatga caacaaccac tggcagacag ccccgttntg gaacctggga 120
tctttctgtg cttgcacgag ttctaacaat aacacctact ggtgtttgcn tacagttaat 180
gagatgcata atttnttttt ctgtgagttt gctactggct ttttggagta ttngatatg 240
aatcacagatc cttatcagct cacaatatca gtgcacacgg ttagaacg 288

<210> 80
<211> 322
<212> DNA
<213> Homo sapiens

<400> 80
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gaagtaacgt tctgattctt tttcttacac agaattggca gagggggctg atttgggagg 120
aaaggtgtgg ctataaactt tgttactgaa gaagacaaga ggattcttcg tgacattgag 180
actttctaca atactacagt ggaggagatg cccatgaatg tggctgacct tatttaattc 240
ctgggatgag agttttggat gcagtgcctg ctgttgctga ataggcgatc acaacgtgca 300
ttgtgcttct tttttttggg ga 322

<210> 81
<211> 361
<212> DNA
<213> Homo sapiens

<400> 81
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ctaaagggga gactattctt taaagttttt aacataagct tgtcaatgca catgtagatg 120
gttagcatgt tttagcaaac ttgtgaaatt ataataagtt tgtagttaca tgtgaaactc 180
taaatgcatg gcaactgtta atgtcataac agttttagtt ttttgttctg ttctgtcatg 240
tgccacaaaa tatgtacttt tttactttt ttccctttgt atatcagttt cgggtttacaa 300
ctggttcatt ctgaaaacaa caacaacaaa agtccattca ttttttttaa ccattgtata 360
g 361

<210> 82
<211> 206
<212> DNA
<213> Homo sapiens

<400> 82
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tggtttgcagc attcatagcg caaattgtac ctgaactgga aagccgaatt ctgcagatat 180
ccatcacact ggcgggccgt cgagca 206

<210> 83
<211> 563
<212> DNA
<213> Homo sapiens

<400> 83
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gatccgagtt gggaacccat gggaccctaa tgttctctat gggccactcc acaccaagca 180
ggcagtgagc atgtttcttg gagcagtgga agaagcaaaag aaagaagggtg gcacagtggt 240
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aagtagcatc ttaccaaaag atctgggcag aatcttttgc tggcttggac ctaaaaggatc 480
agactgtggc attgtaaaatg tcaacattcc aacaagtggg gctgagattg gaggtgcctt 540
tggaggagaa aagcacactg gtg 563

<210> 84
<211> 450
<212> DNA
<213> Homo sapiens

<400> 84
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gtccttacca gtgagaggcg tcacacagca cacactgcat gaatggggat gaaatcattc 240
ctgaattaat atagggttat attacttggg cctcagccat ttgagcctca gtgtctgcat 300
cataatgtgt tagtatatgg acatctaact gaaattatta acgtggcaat ttatgcgtgc 360
ctttttttgga aatattctat tttaattgga agaattatgt agaaatactg gatacatttt 420
taaaaacatc cataattcac catcttgaca 450

<210> 85
<211> 320
<212> DNA
<213> Homo sapiens

<400> 85
ccattagtgt tcacactcag acatttttgc ccagctctaa ggtaacttca tctatagctg 60
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aaaccagtgg gatagaaagt ccaacggatg accatgtaca gatggacca gctggaatgt 180
gcggagacat ttttgagagt gttcattcat catataatgt tgctacaggt aacattataa 240
gcaacagttt agtagcagag acagtaactc atagtttgtt acctcagaat gagcctaaga 300
ctttaaatca agatattgag 320

<210> 86
<211> 524
<212> DNA
<213> Homo sapiens

<400> 86
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<210> 87
<211> 439
<212> DNA
<213> Homo sapiens

<400> 87
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aatgactacg	tggacatcat	ctgtccgcac	tatgaagatc	actctgtggc	agacgctgoc	180
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tccaaggacc	aagtccgctg	gcagtgcac	cgccccagt	ccaagcatgg	cccgagagaag	300
ctgtctgaga	agttccagcg	cttcacacct	ttcacccctgg	gcaaggaggt	caaagaagga	360
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<210> 88
 <211> 376
 <212> DNA
 <213> Homo sapiens

<40>	88					
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ttctagcttg	tctcatgcca	taggaagcaa	aaggaaaaga	tagagttaga	gagaacattc	120
ttccactggc	gaatcggcca	tgtcagagcc	agacaggatg	tttatgaagg	taaactagct	180
gaccagtact	accagagaac	tttactgaag	aaagtctgga	aagtctggcg	ttccgtagtg	240
caaaagcagt	ggaaagatgt	ggtagaaaaga	gcttgtcaag	caagagctga	agaagtttgt	300
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<210> 89
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400>	89					
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aggcccgtg	gttcgtgctg	gacaagacca	agcaccagct	gcgctactac	gaccaccgtg	120
tggacacaga	gtgcaagggg	gtcatcgact	tggcggagggt	ggaggctgtg	gcacctggca	180
cgcccactat	gggtgcccc	aagactgtgg	acgagaaggc	cttctttgac	gtgaagacaa	240
cgcgctcgctt	tacaacttct	gtgcccagga	cgtgccctcg	gcccagcagt	gggtggaccg	300
gatccagagc	tgccgtgctg	acgcctgagc	ctcccagccc	t		341

<210> 90
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400>	90					
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atggattttt	tcttcagag	aaaatatctt	caactctcaa	agtagaacc	tgttctttga	180
cccctggcta	cacaaagctg	cttcagttta	tccagaacat	catttatgag	gaaggatttg	240
atggatccaa	tcctcagaaa	aaacagagaa	acattttaag	aataggaatt	cagaatcttg	300
gctcaccctt	atggggagac	gatatttgc	gtgagaaaat	ggtggcaaca	gtcacagcct	360
taccaagttc	ctctatgttc	tccgtgggtc	tctg			394

<210> 91
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400>	91					
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gtcgaaaacc	ttggaggctt	tttttgcagt	tggccacagg	ggtgttggag	gcctgcttat	120
gggtcctcga	tgtcgagaaa	ctcctgcttg	ggg			153

<210> 92
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 92

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tgtagaaaaa	tagatgttcc	agccaccatt	tacttaactg	tctaatattt	aagaccaatc	180
aatatgttcc	ctggaaagat	gaaaaagtct	catgactaac	tctgtttttt	aaaaattctt	240
taaaacaaaa	agtgtgtgtg	tgtgtgtgtg	tgtgtttact	ctcaaagcac	agcattttcca	300
cagcagcagc	caacatgggg	tttagtagct	tcactcacc	ctaactaaag	ctttgaataa	360
accagtgtat	tactacaaaa	aacactgtcc	ttgaaagaaa	ngacngcagt	catacatgaa	420
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<210> 93
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 93	tttttttttgc	cagtgcacagg	ataaaaaagca	aaattttttaa	ttggaaaatg	tctagcactt	60
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	gcagcacgcg	ccatgatgag	agctccccct	ccgaggcgct	tctggagcag	cttccctcaac	180
	ctgtccggga	gacgggctca	gaagagcagg	gcccccatgc	tgccaacctc	gctttgctcc	240
	ttaacgaaga	tctcaaagta	ctggttagatg	attgtgactg	cgagcaggat	cccggtttcca	300
	gacccaatgg	cgcttaggaa	gtcagccagg	accgagaggg	ccccgatgca	cagcccacca	360
	aaggcccgcg	ctgtggggat	gtaccgggtg	agttcatgga	ccatggagggt	ctctcggtgg	420
	cctctcatca	ccatctgctg	ctccttcagc	tgttttgcaa	catctttggc	agaggaaacct	480
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	acaactgcat	ggaaacgggtc					560

<210> 94
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 94	gacctcttac	cttactgatg	ctggcaaata	acaaatacag	atggtaatag	actctggaat	60
	agttcctcat	ttggttccctc	tgctcagcca	ccaggaagtt	aaagttcaga	ctgctgcact	120
	tagagctgtg	ggcaacattg	ttactggaaac	tgatgggcaa	acacaagtag	ttttgaaactg	180
	tgatgctctt	tcacacttcc	cagcactcct	gacacatccc	aaagagaaaa	ttaataaaga	240
	agcagtgtgg	ttcctctcca	acatcactgc	aggaaatcag	cagcagggtac	aggcagtaat	300
	tgatgccaat	cttgtaccaaa	tgataatata	cctttttggat	aaggggggatt	ttggcccaag	360
	cagcttcttt	ttgagtgcc	agtgcagcgg	gccgga			396

<210> 95
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 95	atggagagtc	acttaataat	aaattttctc	tatagtaggt	aaatccgatg	aaaggcagct	60
	gattttccaac	aaaagcttta	ggaattggga	aggttttctac	atctcctttg	tcatcttcaa	120
	tgtcatcgaa	attgctgctg	tctatgtcac	tgctgagttc	agggtactaca	ggagctgccg	180
	ttttctcttat	gttatcccaa	tgccactgat	cattctttaa	gaaaggatgc	tgtctgattt	240
	cttccacccc	attttctcca	agtcgtacct	ccctatctgt	taagaaaagca	cagatgagat	300
	tctttgcatg	tttggaatt	tctgcatctt	cagggaaaaca	cagtgaattc	ttatgatcca	360
	taatttttgc	atatgttctt	acaagtgaat	ccgcataaaa	tggagtatcc	cccactagca	420
	tctcataaag	gaaaacacct	acagaccacc	aatcacattc	tgcgccatag	aaaccatcac	480
	ccccctgtga	tttcagaacc	tcagggtgata	tataatccgg	tgtttccaact	gctgtatcac	540
	aatgtaccat	gcctgtttca	tccatcttca	tacagggtgc	aaaaatctgct	aatttttagat	600
	ggctcatgttt	atcacagagc	at				622

<210> 96
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 96

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tgctttttct	tgagagcttg	tggaagggtg	taacgtgggt	gggaacatca	acaccttggc	120
atgcatgaat	gttaagtcag	gaaggccagc	gatcaccttg	atagcttctt	cacttaggtg	180
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tgcaaatgca	tcagtcactt	tgaggcttga	ggtggagatt	tccagcttag	aagttgttaa	300
ctcatacaac	tccggatcca	caccatctaa	agggcttagta	aggccactgc	tactccagtc	360
aaaactggacg	ggtggtagag	actcctggaa	ctgatcagat	gtacatgtg	tcatatcttg	420
tgacatgggtg	gctgtctgac	cgatg				445

<210> 97
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 97						
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tgtagcccat	ggagatatgt	ctgagatcct	gtacctgcag	aatgggtcaa	gtagcggaaa	360
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agtggagtg	tttgacctag	aagcctggga	tatgccggat	gatgaggtct	ctgcgctcca	480
ggaaggggtct	tgcgatctgg	atgaacttgc	gcttgagacg	catgaagggt	ttgctgcctt	540
g						541

<210> 98
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 98						
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acccattttta	cagaaaaatc	ccaaaaacata	tactgcaata	agctcaaaaac	aatgtgaaaa	120
agaccagtgt	gaatggcaca	caaaaaatcgc	ctctttataa	attaactgga	attcatgata	180
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agtaattttt	aaaaaacttta	gcatacaggct	gctgaagcgc	ttgacaaaaac	tcctgaatta	300
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ggccccgttt	gagatgaatt	gttt				384

<210> 99
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 99						
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gtgactcaag	accacaaaaa	acccatttct	ccttcacttc	tgagtccctgg	ggttaataacc	120
tagaccagca	agtgtactgc	ttgggggtcca	ttcacagggt	tacaagtctt	tcattgagtg	180
caatctgtga	ctgtgtgagg	ttggccagggt	aggtcaccat	caaaagggtca	ttgatgttgc	240
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tcaggaagcg	gcccacagta	ttgtcagctg	acacctttcc	agacagtaca	tcctctgcat	360
attgcaaacac	tgtactcagg	gcatacctgga	tgcgagctga	tgccccctcc	acttgctgca	420
agtcacttga	gagtccaatc	actctgttgg	ggctaaaagca	ggtcttcatg	atcagggtcaa	480
ctccgatgcy	ttcagtgctg	tagtaacgcgt	atttcactgt	cagagggggtg	aacat	535

<210> 100
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 100						
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acaattttga ctaaagaata aatcccttca ttgttaaacc taaacagctt taaaattcag 180
ccatggaaca taagataaga ctggaattca aacttctgat gtccatggca aacctgaata 240
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ttgatgcacc tggattttgt taaatacaac aaagggtcact cagtccctca tggataaaacc 360
tagctgggag aatagcactg aacagtgtat tgcattgago agaaatccct cagaaaggca 420
acactgggatt cattttttaga caggcataga ct 452

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<210> 101
 <211> 447
 <212> DNA
 <213> Homo sapiens

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<400> 101
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gcatttcaca cccttcaatt acaccacatc aagaatgagg ggaaagcgtt gtaaaagtag 180
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agtctcatag gtcaataaag cttctgcgag attcttatgc tcttttgcct gaggttttcaa 360
gatattgttt gctcgttcat atgagtcact tagaaggatt cttatttccat gttcagatggc 420
agattggggtt tctggactta ggttttcc 447

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<210> 102
 <211> 368
 <212> DNA
 <213> Homo sapiens

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<400> 102
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tcccttttaa tttaaatata ttctttattt acagattaaa cataaaatat catctacagt 180
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aatgcagctt gtgttttgcct atttaaaaact aaaacaaaat aaccttttaa aatattattc 360
ctctgcct 368

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<210> 103
 <211> 685
 <212> DNA
 <213> Homo sapiens

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<400> 103
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gtacaaattt acattcagga ggaatgttaa aaaaaattca actaaaaaaa ccacttcttc 120
ctgtgaccca taatcccaac attttacagt gcaggggaga aggaggcttg gggaagcatc 180
caaaacaagt ctctcaaaaag aaatgacttc aaaacttcac attcctcttc cacacgggat 240
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ctggaatgag ttcgaaogtt ttcccttagac cggcatagta atttgtagag aaagtccctg 660
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<210> 104
 <211> 676
 <212> DNA
 <213> Homo sapiens

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<400> 104
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gaatttcatt tattttctta tttctgttgc tgcctttatt ttatttactg aaagtgcagag 120

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ggaactttttg tggcctttttt tttcttttttc ttctgttaggc cgccttaagc ttactaaaatt 130
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aaaggttgcg gtgttgatca tgccctatgg tgggtgacca actgcttgta caattacgtt 300
tcaactcttaa ttaattgtgc ttaaggctga attaaaattg ggtgttccct tcttagagca 360
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tgggtcctct cccggctcgg gagtgcctac cctacagagt gtgtagcgag cgaactctgg 600
aaagtagtcc tcaatctcga tttgccaccg ggactttctca gcagcaggctc ttgcttgtgt 660
agaagagatc acaaga

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<210> 105
 <211> 367
 <212> DNA
 <213> Homo sapiens

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<400> 105
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aatggccaag tttctttccc aagaccaaact taatgagtac aaggaatgct tctccctgta 120
tgacaagcag cagagggggga agataaaaagc caccgacctc atgggtggcca tgaggtgcct 180
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acccaaagaa agaaattctt ctagccatgt tgatggtgga caaggagaag aaaggttacg 360
tcatggc

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<210> 106
 <211> 440
 <212> DNA
 <213> Homo sapiens

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<400> 106
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gaggaccagg cccaaggca tgctcatgca tagttgttga gaaggggacc cctggcctca 300
gcttttggcaa gaaggagaaa aaggtggggg ggaactccca gccaaacaga gctgtgatct 360
tcgaagactg tgctgtccct gtggccaaca gaattgggag cgagggggcag ggccttccctca 420
ttgccgtgag aggactgaac

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<210> 107
 <211> 442
 <212> DNA
 <213> Homo sapiens

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<400> 107
gcacacctgt agtcctagct actcaggagg ctgaggtatg agaatcgctt gaacttggga 60
gccggagtta cagtgaagca agattgcgcc actgcactcc agcctggggc acagagcgag 120
accctgtctc aaaaaaaaaa aaaaagatga tgtaaaacttc acagggcaag gtcttgttgt 180
ttgctcacct ctgggttatg ctcataaaaac aagctttttg ccattgtacc taagtcagac 240
ccaagaatgg tgtctaccaa tgattgtctc ttgcccactta ccgtacgcat acagaaagtg 300
cgtgtggtaa tcggcataca caaagaagtc gtcccccttc ttgtgggtcca gcacggaatg 360
gctgttctgg aagtaattta acacactcaa aatgggtngcg ttctgtgtat acgggtgaaa 420
agggggccaag cagatgtctt ga

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<210> 108
 <211> 453
 <212> DNA
 <213> Homo sapiens

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<400> 108
gagactgcat agggctcggc gtgggggggt ttctactatt ttgtcagtgc cctgggcata 60
acagcaggag ctcatcgtct gtggagccac cgctcttaca aagctcggct gccctacgg 120
ctctttctga tcattggcaa cacaatggca ttccagaatg atgtctatga atgggctcgt 130

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gaccaccgtg cccaccacaa gtttttcagaa acacatgctg atcctcataa ttcccgaagt 240
ggctttttct tctctcacgt gggttggctg cttgtgcga aacacccagc tgtcaaaagag 300
aaggggagta cgctagactt gtctgaccta gaagctgaga aactggatg gttccagagg 360
aggtactaca aacctggctt gctgatgatg tgcttcaccc tgcccacgct tgtgccttgg 420
tattttctggg gtgaaaacttt tcaaaacagt gtg 453

<210> 109
<211> 421
<212> DNA
<213> Homo sapiens

<400> 109
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aactccttgg ggatcagaat agaaaagcttc tagctcaaaa ggcccccttc tcagaaaagg 120
gagaactttg gagaaaggag cagcatgggt tcgactaaaag acttcatgaa cactttcagt 180
atctttctgaa tcatgggttc agatcagaga tattggaaaa ggaactgcac ctgtgacgga 240
aaattctcta acttttaaag cgggggaaaag tattgcacac tgtaaatgcac atcctctggc 300
tactgcttca tctgcattga gtgttgtgct aatatctttt ccaaagaatt tggcaattct 360
ttctttcaca gctggaattc gtgtagcgc tccatcaatc tctactgcac tcacatcttc 420
t 421

<210> 110
<211> 309
<212> DNA
<213> Homo sapiens

<400> 110
ataagaatgc ctgctagcaa gggttccagc aaggtgggtg gttgggtctgt aagtcagtct 60
tgagtacttg aaacagttct gtgtttgttt tttttcctta gcgttttagaa tagccatcat 120
tgtcctgcaa taggcagagc tatcacgtcc agggaaaaatg agggagggaa ccacagaggc 180
agcgtgagat ccaaatacag cattcaaagg taattgggtcc agtgggtgcct ggggagggag 240
gaaggggat actccagggt tagccgtctt cttttggggg tgtgtacagc cgtttttttc 300
gtggatctg 309

<210> 111
<211> 489
<212> DNA
<213> Homo sapiens

<400> 111
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aatgggttgg attctagtta atcaagtaac tctttttatta gcaaggcaga aactagtgtt 120
tttctataaa cttgaatgtt aattgtacag gtgtatttta caatttttgt ttaattaaaa 180
aaatgttact atattaataa tcaacctggt caaaaccttt caggtttctt cgtttgagtc 240
agtcgccttg attcagaatg tcacgagcct tatgatatca tgctgaggcg ccttgcaaat 300
ccgacaatta agatcctcct agaccttgag gtgatcagca taagaggcca gatccctctg 360
agtatctac acctagcttc accttattct ttaaagggca gaaaatttga gacggtgatc 420
gccgtaacag taaatttggc ttacaattgg ggcaccttc cgttttagaa agaggaaacac 480
cagattgac 489

<210> 112
<211> 563
<212> DNA
<213> Homo sapiens

<400> 112
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cactgttggg gatgtgtata agctgttgc acgatactac aatgaagaat gcagaaaactg 120
ttccaccttc ggaccagaca tcaagcttta tccattcata taccatgctg tcgagtcctg 180
tgcagagacc gctgaccatt cagggcaaaag gacagggacc tgaggagccg agcgaatagc 240
atctcctccc acctcccacc agagacgtcc tgtttgagct gtcagggtga atatatgaat 300
tgacttaagt taatataaat gtgtacataa tccacatttg tagtcaaggga cgcaatctct 360
tccacacatg tgcagttgtc agttggtaaa tctaaaactcc ctccatcctg actcagctgg 420
acttagatat gttttgtttc tattttcttc tatgtcagtt tttcattctt tgatgtttat 480

gtcttttgtc catcagatct cttgtgatat cacatggaag gttgtgctca gcctgtcggg 540
 tctctttctt cctgcacata tat 563

<210> 113
 <211> 587
 <212> DNA
 <213> Homo sapiens

<400> 113
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 atggcagaag gaggagttac tagtgaagat tatcgacgt ttttacagca gccttctgga 120
 aatatggatg acagtgggtt tttctctatt caggttataa gcaatgcctt gaaagtttgg 180
 gggttagaag taatcctgtt caacagtcca gagtatcaga ggctcaggat cgatccctata 240
 aatgaaagat ctttttatatg caattataag gaacactggg ttacagttag aaaatttaga 300
 aaacagtggg ttaacttgaa ttctctcttg acgggtccag aattaatatc agatacatat 360
 cttgcacttt tcttggctca attacaacag gaaggttatt ctatatattgt cgtaaagggt 420
 gatctgcccag attgcgacgt gaccaactcc tgcagatgat taggggtcaac agatgcatcg 480
 accaaaaactt attgggagaag aatttagcaca actaaaagag caaagagtcc ataagacaga 540
 cctggaacga gtgttagaag cacatgatgg cttaggaatg ttagacg 537

<210> 114
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 114
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 aaaagataaa atgacatttt gcaacatatg ccaaacttca tgttttagtgt acacttctaa 120
 ttattggcat agaggggatat aactgttaaa taacctgaaa tgacaccatg caatgggtgaa 180
 actacagaag ttgggtgaaaa gaagtattta cataatgtaa ta 222

<210> 115
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 115
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 cagggtgtttt tgtcatgtgt cactgctggc tctgtggctt ccaggtaagc tggcggcagt 120
 accttatctg gtacctcaac aggtgttggc tcttcagatg ttagctcggg ggacgtgaca 180
 tgggtagaag gttctgcaag ttctgggggaa tgttcgcccg acagtctctgt ctccctctaca 240
 tctttgactt caaactgtcc accctcttgg tcatctgcat gctctttttt ggactgcccgg 300
 tgaactgaca ccttgatggc aatttgctga ggttgctcgt gcagcgaatga ggcgtccgag 360
 tcagcggcag gggagtcgct ccgcttcaga gaggttggga ttgtgtagac ctcatccctg 420
 tctgcccctt cctggcctct ggagtatgcc tcaaaaattc tgccccgggt ctccagccca 480
 accacctcat aatctcctcc atgatagtcg cg 512

<210> 116
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 116
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 gaagaggctt tgcggagagg agcccatacc agcgcaaaagc tganctcctg gtgctggcgg 120
 tgctgtctga cggagctggc gaccacatca ggcagagact gctgccccca ctgctgcaga 180
 ttgtgtgcaa gggcctggag gaccctctgc aagttgtacg caatgctgag ctgtttgccc 240
 tggggccagtt ctacagaaaac ctacagcccc atatcagcag ctattcaagg gaggtaatgc 300
 cactgctcct cgccctacttg aagtcgggtgc ctcttggaaca cacacaccac ctaggccaagg 360
 cctgctatgc cctggagaat tttgtggaga acctaggggc caaggtgcag ccttaccttc 420
 cggagcttat ggaatgcatt ctgcagcttc tgagggaaccc cagcagtcct cggggccaagg 480
 agctggctgt gagcgcctct ggagccattg ctacggctgc ccaggccctg ctgctgcccct 540
 acttccctgc catcatggag cactg 566

<210> 117
<211> 549
<212> DNA
<213> Homo sapiens

<400> 117
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ttggagaatt agtacagatt ggtcataaat gccgcataaa gtccgtagat ccaggtaaaag 120
gtatttccaa atggcgtagt aatgcactgc agctgccgtg gccacaaaaca ggtgccagat 180
ggcgtgggca aatgggaatga tgccatcact cttgaagaac acaactccca agcaataaat 240
taagccccca caggcaagtt cctgaagtcc atcgggtgtg ttcattgatg tcaccaccaa 300
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gtagagaaat acataaatgg ttccctccagc tgccatgagc cagataaaacc aacgcataatg 420
agatgccagg ggtccaagtt cacgaagatt taaccatgga gcataagaag cagcaatgaa 480
gaaatagata accattctat cacacatgtg aaaacaatgc tccactgtcc ttaagtggct 540
ctttttcca 549

<210> 118
<211> 416
<212> DNA
<213> Homo sapiens

<400> 118
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aggtgtgggt ggttgatgcc gattgtaact attatgagtc ctagttagct tgaagcggag 120
aaggctacga ttttttttga tgtcattttg tgtaagggcg cagactgctg cgaacagagt 180
ggtgatagcg cctaagcata gtgttagagt ttggattagt gggctatttt ctgctagggg 240
gtggaagcgg atgagtaaga agattcctgc tacaactata gtgcttgagt ggagttagggc 300
tgagactggg gtggggcctt ctatggctga ggggagtcag ggggtggagac ctaattgggc 360
tgattttact gctgctgcta ggaagaagcc caataagtgg gtgaggcttg gtttag 416

<210> 119
<211> 405
<212> DNA
<213> Homo sapiens

<400> 119
cgggcccttta cctgcgacga cctgttccgc ttcaacaaca ttaacttggg tccacttaca 60
gaaacttatg ggattccttt ctacctacaa tacctcgccc actggccaga gtatttcatt 120
gttgacagag cacctgggtg agaattaatg ggttatatta tgggtaaagc agaaggctca 180
gtagctaggg aagaatggca cgggcacgtc acagctctgt ctgttgcccc agaatttcga 240
cgccctgggt tggctgctaa acttatggag ttactagagg agatttcaga aagaaagggt 300
ggattttttg tggatctctt tgtaagagta tctaaccaag ttgcagttaa catgtacaag 360
cagttggggc acagtgtata taggacggtc atagagtact attcg 405

<210> 120
<211> 318
<212> DNA
<213> Homo sapiens

<400> 120
cggacgcaag tacatccaga cagacagcgg cccctactgt gtgcccctgt atgacaatac 60
ctttgcccaac acctgtgctg agtgccagca gcttatcggg catgactcga gggagctgtt 120
ctatgaagac cgccattttc acgagggctg cttccgctgc tgccgctgcc agcgctcact 180
agccgatgaa ccttcacct gccaggacag tgagctgctc tgcaatgact gctactgcag 240
tgcgtttttc tcgcagtgtc ccgcttgtgg ggagactgtc atgcctgggt cccggaaagc 300
tggaaatatg gagggcca 318

<210> 121
<211> 460
<212> DNA
<213> Homo sapiens

<400> 121
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 aagccagaag acaaaaggaac aaaaataaac aatgacgtgt attccaaacc aaacaatgag 120
 aaatctatgc aactagacta tcagttcaat ctatttccag gtcgtatcc tcactgtgac 180
 acgtggcaga gttacgcaca gatgtcagca ccaagacttc cttttctggg agtaatccaa 240
 attcctggag aaaagcttca aggtccacag caaagaaatc atcccccagc tggtcagttaa 300
 cacgaacaaa attgccgac aattaccccc ctttatagat cagcagggga ggaagggcat 360
 tcctgggtgaa ctgactgctg gcgccaataa ctgagctctt caccctgcag aacttgacag 420
 ctgggtactc tgccggcaagg cagatcatgc aaccattcat 460

<210> 122
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 122
 atagagcctc acagctgcca gctgttcccg ggcccggaaac gtctgggtca gtgaggtccc 60
 atctggcagc ctgacctgta tgcgacactg gtcatactcc cgcttgggtgg gaggctcccg 120
 gctgggagaa gaggggaacag gacctggctc tgggtgccact ggggggtggc gagagcccac 180
 actgcccacca tacttcttgg ctctctctgc ttgtccctc tcgattcttt ctctaactct 240
 ttgtctggct gctaactctt cgcccttttc cctccgctc tcttcagcag cccggcgcat 300
 ctcatcttcc tgtagccgct gtctgtctgc tgacaactct tgcccttgtc tcttgcgctg 360
 ccgttccccg ttcaatgcct cccgttctct tctttcttca cgctcccgct gcttctgggg 420
 ccacagctcc aacatccccc ctagtctgtt ccgtcttttc ccttcaactca aagnggggtt 480
 tgcccttctc cgcagccaga aacagattct tcaaggggcg ctgggtccctg aggaattggg 540
 gtcccgtccc aagatatgtc caagggggagg ttcaaaaagg tctttcaaaa tcgggttggg 600
 cttgtctctt aaaaaaccat tccatgaaag cttgagtcct ctgttccctt gaagggcaaa 660
 aactttctcc gg 672

<210> 123
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 123
 gcacgagaaa tatctgccta agtgggacct gtgaaaacac gaaaggctca tttatctgcc 60
 actgtgatat gggctactcc ggcaaaaaag gaaaaactgg ctgtacagac atcaatgaat 120
 gtgaaattgg agcacacaac tgtggcaaac atgctgtatg taccaatata gcaggaagct 180
 tcaaatgtag ctgcagtccc ggggtggattg gagatggcat taagtgcact gatctggacg 240
 aatgttccaa tggaaacctat atgtgcagcc agcatgcaga ctgcaagaat accatgggat 300
 cttaccgctg 310

<210> 124
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 124
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 gcaccagaac cgattcatcc ggcagagcgg canagcagca gcagcaacaa caacggagtg 120
 aagagctgct agcagagaga aagcctgggc ctctggaggc gggaaagcga gaccagccc 180
 tggggagatg cgggatcaga gccccaagg aagagagtca agagaagaga gactaagtcc 240
 gagggagacc agagagagga ggctggggat agggggagcc caagagttag gcctgaggcc 300
 tc 302

<210> 125
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 125
 tttgaggttt gtaagaattt tttaaacaaa acagaaatca cagtgaacaa gggtaattgcg 60
 agtctgtgtc ttccctggcc atgctgctcc ccacagctct cgggtgggtac taaatgaacg 120
 gccactgcat gatgcttctg tctttccccc ccgtggagat gaggtggctg tcttcacaga 180

ggaaatcgac	attggtgaca	tggctgctgt	gccccccgta	gatgtggctt	ggagccctga	240
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gtttcttctc	atgggccccga	cagacggcat	ttatgttgg	tcogtccgag	ccttctgggc	360
acactccaaa	aaaatgggaat	cccaaagtgg	aggatatagg	aggccattca	atgtctcttg	420
tagtttccac	acttacgact	tgtttacagg	cagaggggaac	ccagtagagg	atttcgtagt	480
ctccggaatt	tgacacgagg	aactgtgagt	ttacagacca	gtccagggtga	gtaatgaagc	540
tgggaatgac	cgagcacttg	cccactcgcg	tgtacttcc	cccgcttgta	ctaaaggcat	600
atataatagat	gcagttgtcc	tgtgagccta	tggtaaagaa	atttcccatc	tgggtgagtat	660
tgcattacag	agaagccgac	ggttccatcc	tgtgtgaagg	gggaccaagt	cttttgtttt	720
tcgtgttaaa	aacaaccac	ctcccagtta	gtgggttcgac	ttcaaccac	gaccccttgag	780
ggatgaaacc	aagagaactg	gccggtttct	c			811

<210> 125
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 126						
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tttagaagga	ctacagtttg	gctacctggg	ctcttctggg	gcagatgtgg	catcctgagg	120
tgtgttagct	tctgccgggtg	cagatacagc	tcctaccaca	gtaggggtgg	tcctcagataa	180
agcaggggatg	gcttctggag	tggaaagtggc	tcctgtctca	ctgggggtgg	tgtcagtttg	240
aaaggctgga	gtttcttgac	ggcagctggg	gtctgttggg	ctgggtatga	tgtcagcttg	300
aacagtcattg	gcctcttctt	ctgtttccaa	ttctgtttct	tgattttgaa	cttctctacc	360
ctcttctacc	atagcaggtg	gtagttgtaa	taaagtctga	tgataatgat	gtgtagtctg	420
tatcaaatgc	atgtacatgt	tgtatacaaa	gtttgc			456

<210> 127
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 127						
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tgttattttca	aaatggagag	ataatgatgc	tttctcctat	gggtatgtta	gagcgggaagt	120
tctggctggc	tttgtcaatg	gcctattttt	gatcttccact	gcttttttta	ttttctcaga	180
aggagttgag	agagcattag	ccctccaga	tgtccaccat	gagagactgc	ttcttgtttc	240
cattcttggg	gttgtggtaa	acctaatagg	aatatttgtt	ttcaaaaatg	ga	292

<210> 128
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 128						
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tttttaattgt	cagctaaact	caaaacacag	ttttgttcac	ggttcaaacc	aaacagctct	120
ttacgttcca	gagctgcctc	acagctagca	cagntcacag	gagattactg	tctgtccata	180
cccaccagac	acagaactga	acacccacac	accagttttc	aaagagggaa	cttacaatga	240
atgctggctg	cccagggcac	ccatgagtgt	atctgggnct	caagctggag	ttttccaggg	300
gagaaaagcct	gggaagcttg	gtggcaagga	agttgggnat	tgcccaccc	actgggaaag	360
gggtttctca	ggggttgagt	gaaaatccc	ggttaggnat	cagccctttg	tgggaaacat	420
gggcactttc	agt					433

<210> 129
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 129						
gatccaggag	ccacacagct	gccatgggtc	anaaggccct	ggaaaccgac	ccaggagatg	60
ccgtgggtgt	cncgctttgc	ganttgctga	ttctaaactat	naagccattt	gtaaggtacc	120
tcgaaaaggtg	gccagaagta	tctcctgagg	cccttcttagc	aggtggctga	ccagcatttg	180
cactgaagaa	ccagcgttgt	ctgaggttgg	gccacccgac	ttagcaagca	caaaggtacc	240

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cccagatgga gaaagcatgg aggaagagac gcctgggtcc tctgtgggaa tctttggatg 300
caagcttcca ggctagccct ccacaacagg aagatgagga gactgagaga agtgcaaaag 360
aacttggaat gt                                     372

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<210> 130
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 130
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gggcggggcc ggctccatgg cgcagcggc gtccgcctga ncagcgggg caacagcggc 120
ggcgctggcc ggatcgggccc gcgacacctc ctggccatgg gggacgtgct gtccacgcac 180
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gagggcagcg ggctgccgca ggcccagctg ctctggcgca aggtgccact ggacgagcgc 360
atcgctctct cggggaacct cttccagcac caggaggaca gtaagaagtg nagaaccgc 420
ttcagcctnt tgcacacaaa ctacgggctg gtgctctacn aaaaacaaagc nggtctatga 480
gcgagggtnc caccacgagc cgtcatcaac agtgcangct acaaaatc 528

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<210> 131
<211> 521
<212> DNA
<213> Homo sapiens

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<400> 131
agaggaaatt gattagctat ggtgtaagtt ttccgggagag tcatctgaat gttgttatat 60
ccataagcaa tagctgcatc ttctacaata tcacatgcat ggataatgtc agctctggtt 120
ggagggattt caatctcaat ctgattccca tcacctatga cttctgattt taaatacatc 180
ctgggtcagaa gtttggcaag attttctgga gtttctctga ttccaaacttt tttgttaatt 240
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ttaggaaaaa ccacttcagc agcttcgacc gtaaattgat tctcacaata ttcactgaac 360
atgggtgacaa taatatcaag aactatnttt gccttagtaa agtcagttcc cgtgcattca 420
ataaaaaatat ttctagtatn tactgttatt ctggaatgat ccccatatgat gatgggagggc 480
attgaaaaga cgacaccatt gctatcatag ataactggat a 521

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<210> 132
<211> 429
<212> DNA
<213> Homo sapiens

```

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<400> 132
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cataaataaa ccggatgatt ccaaatgcaa ggagtcctca gagcggagcg cggacgggctt 120
ttccggagtc ctgggtctgc atctggcgcc ttggccccctg ctactcgcg ctctcctcct 180
cctcctcttc ctctcctcca ctgcttgagc tccagggccc agacgtgctg cggccagccc 240
gtccggcctt tgggttttctt gtcgttgctg ctactgtgc ttttcaagat ttcggttctg 300
acagaggaaa ggcgagggcg agaaaagtgg aaagagaaat tcagagagga tacctgggtc 360
cacaccaacc cggagccttc tgcgcgggag gagacagtga accagagagg aaaggatagc 420
atggggggag                                     429

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<210> 133
<211> 442
<212> DNA
<213> Homo sapiens

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<400> 133
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ggctctttta tgtcaaaatc ttttttttag tatattttag attaacattt aacatcccc 180
ctctgtgac tataccgttg gatattcagg tattaactgtg tgtgtaacag ctaaaacaag 240
agggaggagg gaaaataaaag gcagtgaact tggacggatg catcaacaac agcagataaa 300
gctaaccctt cagtgaacct agcagcatgt cttctggaag cctttactct taccacagag 360
atttcctcag ccccttccct ctctccctcc tatectccaa acacaaagcc aacagtctgt 420

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442

<210> 134
<211> 913
<212> DNA
<213> Homo sapiens

<400> 134
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tccaggctaa ggaatctcat tttctagctt tgatctgggt gtcagtggg atggacttgc 180
ccaagtgatg gccacagaa aggccaaatt tcttgctttt ctctcatcc tgtacctctt 240
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tgtccccgtg gatcccttgc agagagtaca tggagccact gccaccagt gtgatggaaa 540
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tgcagggggg actgggatat cacaaagggtc tgcggctttc cagcttcttt ttggtcagcc 720
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ggaaagtccc agggctcttt cagtttactt ggaagggcct tttgggaaaag aagggatgga 840
aattatggga taaaggggct gattccacaa cttccttctt tttttttaa gcccgtgggc 900
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<210> 135
<211> 750
<212> DNA
<213> Homo sapiens

<400> 135
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cataagtctt tccctagaaaa gtccctgctaa aacatgtcta gcaatttcat tgattatata 180
aagttagtaca cttagtgtaa tttaaacatt ccaacaggaa tcaaactcgt ccagcagaac 240
ccaattctgca tctatgactt ctatgtacaa acacacatgc agacacacac atttggaaaa 300
gttccctcaag catagacatg caacaccta ggccttctac gtacagtgtc tattaaacta 360
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gagtcagggtg atccagtcca ttccctgtcaa agcctccaac agctacagca caaacaccat 600
cagntntgcga tggctggggg gccttctgga agaagagagg caaagaaagt cttgaagaca 660
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tggaggggagg tgggttgggg tttccatttc 750

<210> 136
<211> 348
<212> DNA
<213> Homo sapiens

<400> 136
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ccaactggta atggtagcga ctggcgctca gctggaattc cggctgggac taccgggtct 180
cactccagaa gaggttctt cagagcatgg tagtcttggg gttctaagag aatgagagta 240
gaagctgcaa aacctcttga aactggggct tgggagtcac acatgacttt ctccacattc 300
tgttcgtcaa aagcgaatca taaggacagc acagactcaa gggataag 348

<210> 137
<211> 505
<212> DNA
<213> Homo sapiens

<400> 137

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caactggtaa	tggtagcgac	cggttctcag	ctgggaattcc	ggattgggtcc	aattgggtat	180
gaggagttca	gttatatgtt	tgggattttt	taggttagtgg	gtgttgagct	tgaacgcttt	240
cttaattgggt	ggctgctttt	agggctacta	tgggtgttaa	atcttttact	ctctctacaa	300
ggttttttcc	tagtgtccaa	agagctgttc	ctctcttggg	ctaacagtta	aattttacaag	360
gggatttaga	gggttctgtg	gggcaaatct	aaagttagaac	taagattcta	tcttggacaa	420
ccagctatca	ccaggctcgg	taggtttgtt	gcctctwcc	ataaatcttc	ccactatttt	480
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<210> 138
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 138						
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gccccaaactg	gggcacgtg	gaggccatgg	tgggtctgccc	ccagctgggc	ctgggattcg	120
ccagcaacgc	cttccaggag	acctgggtatt	ggcacggaga	tgtcaacagc	aacaaagtgg	180
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accggcccat	gttctgtgctg	cagtgtgcca	tggaggagaa	ctgcctctctg	gcctcagccg	420
cgcagactga	ccccaccacg	ggctaccgcc	ggctcctgcg	cttctcctcc	cagatccaca	480
acaatggcca	gtccgacttc	cggcccaaga	acg			513

<210> 139
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 139						
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acctagaaat	agttacctcc	agtttagcac	atttaggtat	ttggacattt	aaagtactat	180
ttcaagtctg	tgtttatagt	gactgagtag	gaagctgata	gaaaattatg	ccatatatga	240
tcaactatta	ccattaaaca	taaaaccaca	ggactttcta	cttggggcta	atcaatatag	300
ggtcatgtgg	ccccctgtctt	gttttagcttc	tgagcatcac			340

<210> 140
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 140						
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tgaacacctg	gcttttttggg	gtttttatcc	cattgtagcc	catatcaatt	ccattactgg	180
gggaggatgg	accaattcga	aagacgtgac	aaaacattct	cacaatcctt	aaaaggctct	240
tcatttgagc	atcataattg	ctagagaggg	taagcagttt	atgaccattt	gttgtagcaa	300
cttcagcaag	gcttggttaga	atcttttaggt	actg			334

<210> 141
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 141						
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cactttctcc	gcttgtagat	tttgccgcga	agcccagaa	agacggctgg	gggcaggggt	120
gctgcgtact	gttcaatgag	agccataatg	tggctgtaac	tgtcttccct	atattgcaag	180
aacactgctg	gcagatccag	ctctcatat	agcgccttca	cccgggccac	tttctcagcc	240
tccttctgcc	cgtaatcttc	cttcaggatc	tggtaactgt	ctggagtggc	ccgttgcaga	300

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cactgaacca ccagccagct gcatttgggtg tcttggatgt cagtgccaat tttgccgggtc 360
acactgggggt ccccaaaagag gccaaggtaa tcatcctgaa tctgaaagaa ctcccccatc 420
tccagcagga tcttcttggc attggcgtgc tcttctctgc catcaattcc tgccatgtac 480
atggctgcag ctatagg

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<210> 142
 <211> 353
 <212> DNA
 <213> Homo sapiens

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<400> 142
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cacgtattgg atacaggaaa aaaaaaaacc taacattaga attaaggcag taacaacatg 180
tgcaaaacca gcacaccccc tgacagtctt cagtagaaaa ctactctggg caggtgggat 240
ctgacatggc tgcattgcagg tctcattgca tgggaaggata ggtcctgaag agcttcattc 300
cttaaaagggg aaaaggaccc ttctcactgg ccaacgatgg ccaggagcag ctt 353

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<210> 143
 <211> 559
 <212> DNA
 <213> Homo sapiens

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<400> 143
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actattgtca tctgcatagg actgtgcttc ctggaaatct actgctcttt tatttgctag 180
gtcggccttg tttcccgata aagctattac aatgttagga cttgcttgcc totgaagttc 240
tttaacccaa ttttttgctc ttgcaaagga ctctcatttt gtgatatcat atacaactat 300
ggctgcttgt gctcctctgt agtacattgg tgctaggcta tggatatcgtt cttgaccagc 360
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agcagcccca atgggtactct cttgaaatca tgacattggc tttcacaaaa caagcactag 480
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gtattggccc cgtgggtct

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<210> 144
 <211> 572
 <212> DNA
 <213> Homo sapiens

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<400> 144
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aatattacaa ccaaaacata gtattgatac aaattagact cctgttttaca ctgtaaggta 120
atgaatgagg gaattcttta agtggttacag aaagattttag tagaaatgtt accagtggtta 180
tggctgaaaag aatatttcgg tgaagtgtcg ttatatcctg aaaaccaaga gtgaaatgta 240
gttcccatat aagtggagag ttagtctctt aactacagta tttgttgaac tgatatcttc 300
atgtcttgga tattgggtgat ttttgttttt taattaaaca aagcatttaa gatttattca 360
tcatagtcat acttctgaat ataaacaaac ttttggcaaa taatattttat acagaaaaat 420
agtttttagat cctctcaaat cccagaatta ttctataaaa ttacattata aataaataaa 480
aagcaaaatc tgttgtacat atatttgtac atctatgcat ttgccttgcc tctctcttat 540
tgtaaatggc atatttatga ctctttgcat at

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<210> 145
 <211> 402
 <212> DNA
 <213> Homo sapiens

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<400> 145
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acacacatac aataagtgaa ttttatcaaa atacagcaca tttctcttac tatatccata 120
aaaatcaatt cctatgtaaa tagtactgaa aatcaactaa aatgagttaa aatttacaaa 180
gagttgttaa agggtttcaa tcaaaattat taaaactata cagtacaata accaattgat 240
aacatcttga aagaagtgc atatttgagt tcacatatat ttaaaagtgc tgccactta 300
ctctgactag caagaatgga aagtgagtc aactcacttt tgcaaaaaata atgttgggtg 360

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gtgttttaag ctagtcttat aaaagtctta attaaaaatca ag

<210> 146
<211> 482
<212> DNA
<213> Homo sapiens

<400> 146
agtagaaaaca aagtatgttt aatgggttgc ttggaaaggga gaagtgggca cctcatgcc 60
gggagatttta aaaatgagac ttttcaagca agcaactgct atagcatagt ctcataat 120
gaaaaatttaa acctaatttt aattatata aaagaactat tttaaaaaat cacacccaca 180
agtaaaaaaac tggtaatctg tttacaaagt gcagcgtcag tacagcaaac tcatctcaac 240
aaaagattat gtgtgggtttc tcgggcttta aaactccctt gggttccatt taaatgcttt 300
aacattgagt catcctgcat acatgaaaag cctgtgtaat gaagcctggg tcccttaaca 360
cctgctatta attaattcca acataagtga gtatgagacc tgnagaagtaa attgtcatca 420
tctgattgat gaggtacaga ttatctgaat aaaatttctg acctgggtat gagtccagtaa 480
tc

<210> 147
<211> 489
<212> DNA
<213> Homo sapiens

<400> 147
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cctcttcatt atgattggcc caccctttaa aaagactgca acagaggatt caattgtcta 240
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tggtgctagg gaacacatga gcaaaaatcta tcattcgcac ttctacttca gcaatctctt 360
ggcaaccagt gggaagatgg tagaaaactt tntccagttg ggaaagtaca tttccattta 420
aatgttccctg tgacatgctt tttccacctt tgtcttgctc cagattttca accttcaatg 480
aagtctgac

<210> 148
<211> 372
<212> DNA
<213> Homo sapiens

<400> 148
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cctgattttg ccacaacctg gatattgaag ctatccaagc ttttgaaata aaatttataaa 180
accccccaagc ctgggtgagt gtgggatatg ctgtgtgaga cctcttgctc agggctcgagg 240
gaggcgngggg ggggngnnnc cnnnnnccct nnacttttnc cttcttctgc nncangctct 300
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<210> 149
<211> 491
<212> DNA
<213> Homo sapiens

<400> 149
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aaatttttga ggtgaaaagg tttacttttc accagtctgt tctggcatgc ttctaatagat 120
gtcagagtca cctggatcaa tgatagccag tgtgcacact ctgtagtatt ttccgcatgc 180
tgtgcccagt tcaatattat tgccactgta gtgatggaca ccagtttttag ccaacatagc 240
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tttcataacg agttggagcc tagagttgat cgactccagc gactttttcg tcttctttgc 420
ggccaccatc ttcctgctt aggagcggga cggcccccaa cctagaagag acagagaaca 480
ggacaggaat t

<210> 150
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 150
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 ttaaaaagac gtttacaact taaatgcatt ttaagaaca aaaactgatt tttctttaaa 180
 cctctactcg taccttcaaa ttgcaagaaa ttaacaaata cagtgcccaa aggaatctgc 240
 agcaacttct taaaatactg ttaacatctt tgggtttgct gaggtctgtc agtaacttac 300
 atcaaatcct cccaaaagaa gatctgatta gatagatatg actaaacggt tttgtagtaa 360
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 aaataaagca agtgtaaaat ggatagtctg acact 455

<210> 151
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 151
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 ggaacccgat attcgggctg ggcggttccg cggcctgggc ctaggggctt aacagtagca 180
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<210> 152
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 152
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 ctgtgggaag gagctgcagc ctgtacttcc ccttcagtta gagcctgaag ctggaggagc 180
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 aggtacttca gccgggtact ctcatctctg ctcttcttcc ggagcttttt catcctggcc 360
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<210> 153
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 153
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 gtttacattc caggccctcg ctaaaataag caggctccac tgccagctgt ctgtacactt 180
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<210> 154
 <211> 340

<212> DNA
<213> Homo sapiens

<400> 154
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tttgataata aatactgctc tttgggctgt aataaataaa aagtttatta acaagggaatg 120
cactttttcca gccacaagta ttttcaaaaa ttaatgaaaa aaaattatat atggccatag 180
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gctctcaaca gagagaattt aagaatcaat gcacctttct 340

<210> 155
<211> 759
<212> DNA
<213> Homo sapiens

<400> 155
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cctttgtatt catgtgtgta cagaggcctg aaggagtcaa tgaagcccac atcagcagtc 180
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atcatattca ttccatactt tagggggctg tgaaaaactg ctctaaaaac tctgtgagtc 720
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<210> 156
<211> 703
<212> DNA
<213> Homo sapiens

<400> 156
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cagggccggg gggcggtgtg ctggctggaa tctccctgg gtacatggag ggtgccagcc 180
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caagcacctt ctcatacttc ccatgcccgg tggccacaaa cttataacct tcccagatg 300
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<210> 157
<211> 757
<212> DNA
<213> Homo sapiens

<400> 157
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ctgcaaatgg gagatggaca ctcattgttg cgttaatctc tgccaccgtt tcttcatcag 480

tgggaaaactg	atatatctgg	accccatctgc	tgaccagttc	actcatgac	ttactcttga	540
atntgtgcag	ttcattcttg	gcaatgtgtc	agcttttgca	aatatggga	atgatgtcac	600
cttactgtcc	agctttttca	tggtgaccag	atcccaggga	ccttagtgan	tgtcagtang	660
gggcaataag	tagaggcaag	gcatgaatcc	tcgtgtcatg	gtagtttgag	aagagaccgt	720
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<210> 158
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 158						
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catctggccc	gtcgtcagtc	actcttagaa	gtggtaaata	cagtggata	gtttggaagg	120
aaaggaggaa	aaaaataatg	cattgtgata	caaaaatatt	acctacatat	aaattattaa	180
agatttataa	aacattcaga	atatgttctt	gctataaaaa	caatatactt	aaatatagaa	240
gcaaaaaagt	ctgaagcacc	cgcaattatt	ttaatatcca	tttaatcagg	gaaaaactata	300
tatgtggata	tataatacat	acatatgtaa	taatttgaga	agaaaaaagg	caaaattctg	360
attataatcc	aaaaagagtt	tatctaatta	tggaggtagg	tctccactcc	aattatacaa	420
ataagttatc	agtttttatt	aaagaattat	aagtc			455

<210> 159
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 159						
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aaatacagca	attcaaatcc	ctgtagatag	acatccagtc	gcttctgagt	gagattcatg	120
gtttgtaaga	gtttttcctc	ttgactggct	gactgtacat	tctgttgctt	agcaactgct	180
cttatctcct	tcagggtatt	ctctctaaca	gactgggaacc	agtgaagtga	atcaaaactcc	240
cgatactgat	ccaaaagctt	tagaatgtaa	gccacaccca	tggaactaat	ggaatgctct	300
aaggcagctc	caatttttatt	tttttttatt	atatttttct	ttcgagatg	tatatctctt	360
acaaagttag	gggtcagagg	gggaacaatt	ataatagaaat	ttcgagatg	tatatctctt	420
ggccttcgaa	attcttgagc	aaaaaacgtc	acaagcattt	tgaaatattc	tgtgccttcg	480
gcagaa						486

<210> 160
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 160						
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catcttccat	actactagat	tcattctgaca	gaatttcagg	acatttggtt	cgcttagcct	120
taacttgccat	tcagaaactg	ttccggctct	ttttactgcc	tttgctacaa	gacttttttaa	180
atttcggcaa	tggttttgca	gaacgctttg	gatgcattaa	gaaattcaag	atcctcttca	240
ctagttcact	atttacacct	gatctctcca	aatcaagaac	ctcacagatg	ctcttttaaca	300
tggtcatttt	aaactttttc	aacattttct	ccttcttttt	atattggaca	cttctttttt	360
caaatggaaa	gccactgaac	tgaccacat	tcttctttta	tgaggacaca	cagcctggcc	420
tggtgtaaag	cacttttgtg	acatatctaa	gatcatccgt	tttcttctta	cttagaaaaa	480
catgtatgct	ctcaatttca	caaagcgtct	gccgctttcc	ttgctgcatt	gtaaaattgct	540
ctctctgcag	ggagagacgt	gcatttggc	ctctctactt	tttcttttcc	ctcttgccct	600
cccgaagaa	cctttttttt	tcttctctct	cttctctc			638

<210> 161
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 161						
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gccaatatct	tatcatctcc	ctctaagaga	ggacaaaaag	gtacccttat	tggatattct	120

cctgaaggaa	cacctctttaa	taacttcatg	ggtgatgctt	tccagcatag	ctctcaatcg	180
atccctaggt	ttattaagga	atcactaaaa	caaattcttg	aggagagtga	ctctaggcag	240
atcttttact	tcttgtgctt	gaatctgctt	tttacctttg	tggattattt	ctatggcgtg	300
ctgaccaata	gtctgggcct	gatctcggat	ggattccaca	tgttttttga	ctgctctgct	360
tnagtcattg	gactttttgc	tgccttgatg	agttaggtgga	aagccactcg	gattttcncc	420
aagggtagcg	ccgaataaaa	attctgtctg	gatttatnaa	tgggcctttt	tccaaanagn	480
aaanagcggt	ttttgggggt	angggagnca	agnggcaaga	tggattggan	ccccaggaa	540
ttaaggcnnc	ccacannnga	aacacccagn	nccanttggg	ggngnnnaa	nnaaacccctn	600
antgggaccc	gggnccctna	nccaaggccc	aagncangcc	caggggggct	ccncaagggg	660
agnngcancc	aaanngggnc	aaaggncctt	caaacncann	ggnggggnca	agggaccnng	720
ggggnggggc	aaccncgggg	tnnggggggg	gngnaaaaac	caaaaannggg	gggnatccca	780
aaaggttggg	aaaaaccontg	gnaaaaanggg	ggnnccgnnc	aaaggccnaa	aaangngtgg	840
ggggc						845

<210> 162
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 162						
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agtagtacat	ggtggataac	tcttactttt	aggaggacta	ctctcttctg	acagtcctag	120
actggtcttc	tacactaaga	caccatgaag	gagtatgtgc	tccattattt	cctggctttg	180
tgtcttgcca	aacctttctt	tagcccttca	cacatcgcac	tgaagaatat	gatgctgaag	240
gatattggaag	acacagatga	tgatgatgat	gatgatgatg	atgatgatga	tgatgatgat	300
gaggacaact	ctcttttttc	aacaagagag	ccaagaagcc	attttttttc	catttgatct	360
gtttccaatg	tgtccatttg	gatgtcagtg	ctattcacga	gttgtagatt	gctcagattt	420
aggtttgacc	tcagtcccaa	ccaacattcc	atttgatact	cgaatgcttg	atcttcaaaa	480
caataaaaatt	aaggaa					496

<210> 163
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 163						
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gttgggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tgttactggt	atgtcttatg	120
tccagaggaa	aaaatgttat	catacagatt	tgtctctact	tgggagtagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatccaca	tttaataaga	tgaaaaaagc	240
attggccctcc	atggtaacca	aatatctcag	tccaataactt	tctattatgc	acaataccct	300
gacttcaatt	gaaagtgtgc	caaattctag	caggtccata	ttaacagtca	acaactatgt	360
tataaaaacaa	aatgatctca	caataataaa	aagaaagctg	gttcataactt	ctgaaaccat	420
ataaagataa	aaaatttttta	aaaaatcact	ctcgatttgg	agaaataaat	ttacattata	480
caacactata	t					491

<210> 164
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 164						
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tgtgggggca	agagtcacca	ggtgggggaca	gggaaagtgt	tgaagcctgg	ccactactgg	120
gcagggaaga	cagagttgcc	actgtatgca	caggggatga	gcagctgccg	gtactccagg	180
ggcaggtgcc	gctccactag	cacgtgcagt	gagacttggt	cagtgaccag	gccctgccgc	240
cgcacagca	gctccaggct	ctctggcttc	acagtcttgc	ggccagcatg	agcagcaaat	300
acctccagat	catacaaaag	atgctggaaa	tatttatcta	ggcacttctc	caccatctca	360
agagccttcc	tctccatggg	catcttggca	tagaagctaa	agagtttccac	atagtggctc	420
agtccagcct	tgtggggatc	ttgccggngc	ctgnggc			457

<210> 165
 <211> 477
 <212> DNA

<213> Homo sapiens

<400> 165
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atagggccag ctccctgtat agttcccaca gagctggcca caccataagt cagggggcaa 120
ctggaactgt ggggaaggagc tgcagcctgt acttccctt cagttagagc ctgaagctgg 180
aggagcttct ttagcaagta ccttctttct tcttttgctt taagaaattt ttcttcaaga 240
cgagcaattt catcacaat agcagcattt tcaaacaccg tggccttggc cgctttgcgc 300
agccgcaggt acttcagccg gtactttctca ttctggctct tcttcgggag ctttttcatc 360
ctggccttgc tggactgcag cggagcccg ggcgaggaag cgaggccgtc cagcaggctc 420
atggtccagc cccgctacgg gggccccagg acgctgccgg catcggaacc taagtgc 477

<210> 166

<211> 468

<212> DNA

<213> Homo sapiens

<400> 166
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ggagctggac cgcgagcgac agaaactaga gacccaggag aagaaaatca ttgcagacat 120
taagaagatg gccaaagcaag gccagatgga tgctgttcgc atcatggcaa aagacttggt 180
cgcgacccgg cgctatgtgc gcaagtttgt attgatgcgg gccaacatcc aggcgtgtgc 240
cctcaagatc cagacactca agtccaacaa ctcgatggca caagccatga aggtgtgcac 300
caaggccatg ggcaccatga acagacagct gaagtggccc cagatccaga agatcatgat 360
ggagtttgag cggcaggcag agatcatgga tatgaaggag gagatgatga atgatgccat 420
tgatgatgcc atgggtgatg aggaagatga agaggagagt gatgctgt 468

<210> 167

<211> 399

<212> DNA

<213> Homo sapiens

<400> 167
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tatatcctct ttaggaggaa caaaatagcc atcatcttca ggttcatctt taatttgttg 120
tggactagag aagccatttt ccttctcctt ctttattttt gcatccccag aggcctcgaac 180
cttttctctt ttctgttttt ccttgcctct gtctttatgt ttgtctttat gcttttctga 240
gcttccatct ttgtgttttg tcttctcctt ctctttgtgt ttcttttccag aatctttatg 300
ttcactgttg ctatgcttgg acttttcccg gnccttctcc tttctgggtt cttttgngcc 360
gnggtctcga tcttttgggt atttttgtgt tatgagaat 399

<210> 168

<211> 557

<212> DNA

<213> Homo sapiens

<400> 168
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caagcggggc aaagccaaga ccaccaagaa gcggccacag cggggccacat ccaatgtctt 120
cgcaatgttt gaccagtccc agatccagga gtttaaggag gctttcaaca tgattgacca 180
gaaccgtgat ggcttcattg acaaggagga cctgcacgac atgctggcct cgctggggaa 240
gaaccccaaca gacgaatacc tggagggcat gatgagcgag gccccggggc ccatcaactt 300
caccatgttc ctccaccatgt ttggggagaa gctgaacggc acggaccccc aggatgtgat 360
tcgcaacgcc tttgcctgct tcgacgagga agcctcaggt ttcattccatg aggaccacct 420
ccgggagctg ctccaccacca tgggtgaccg cttcacagat gaggaagtgg acgagatgta 480
ccgggaggca cccattgata agaaaggcaa cttcaactac gtggagtcca cccgcacct 540
caaacatggc gccaaagg 557

<210> 169

<211> 564

<212> DNA

<213> Homo sapiens

<400> 169

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tctgttttgg	ctcaaaactct	ctagcaccca	agaaggagta	cgtaaaaagg	taatggaact	120
gctgggtccat	ctgaataaaac	gtataaaaaag	ccgccccaaa	atacaacttc	cagtagagac	180
actgttgggt	cagtaccagg	acctgtctgc	agtttccctt	gtcacaaaat	ttactataat	240
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gctttttact	gccatgggaag	ggaagcctca	gccacagcag	gatagcttaa	tgcattcttt	360
aataccaacc	cttttttcaca	tgaaatatccc	tggtgaatca	tcaaaatcag	cttctccatt	420
taatcttgc	gagaaaccaa	agactgtgca	gctgtctttg	gacttcatgc	tagatgtcct	480
tctgatgcct	tatgggttacg	tgttaaatga	atcccagagt	cgccaaaaat	catcttcagc	540
acaggggtct	tctttcaaca	gtgg				564

<210> 170
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 170						
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taaagtgata	acatgcttct	acctgtattt	ctagtgaacc	tttagcgcca	ggtattttata	120
cctgggtatct	atgatgcagt	atataagtgg	tgaacaataa	ctgacagtat	tgtgcttgc	180
gtacatgtct	gggtcttttga	aacagatttt	agtaagcatt	ttccagaggt	aaaactgtgt	240
ccttatttcta	atttttattcc	tagggcaaaag	tagacaggga	ttatttccct	gaatctattt	300
ccaaattaat	attttttttct	ttgggtatttc	tacactttta	ggccatttgg	tgcaattttg	360
aaagtgttgg	cctcccttcc	gctagccaca	ttcanaatta	acttccaaaa	cctcaggaac	420
agtacaaaga	attgaaaccc	tcaatatggc	agcacag			457

<210> 171
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 171						
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tacacgaaat	aaacttatgt	ctgcaatact	cagcctttaa	ttcacccctc	acttcagaag	120
aggtcccagg	ggcaggaata	acacgcacag	attgtttgtt	cacgacttcc	agccggtcca	180
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ggaaatcctc	gtcatcccag	gggaagtccc	cccttctgca	tccgcctcca	ccaggcaacg	360
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ccagtctctt	tgggtgggtt	tgaacacagc	caccaggaaa	ataacgtcgg	tcttgccctgc	480
agagtcagct	tctgaacgtg	gatccccctg	aagcactgga	acaggag		527

<210> 172
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 172						
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attttgctcaa	ttcctggaag	tgatggggca	gatacttact	ttgatgagct	tcaagatatt	120
tattttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
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tccacccgag	attttccaga	tgatgtcatc	agtttccataa	agcggcactc	tgtgatgtat	420
aagtccgtat	accagttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtgggtgga	tcattgtcatt	gcagaagatg	gccagtacga	tgtaatgttt	540
cttggga						546

<210> 173
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 173
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 gttgtcatga agcttcaaat agatctctat agcaattctt gctgccttga agtaaaatgg 180
 atgctgtcga agtacatctt ctagtctttaa taagtccaca tatgatctaa gggtaatctt 240
 cctcatacag tatgtatgaa agtcaaaactg gtcatcagtg attctctataa aatgtctctc 300
 aatctcatga catttcttaa gtgcttcacc aaatttattc attgctttat aagcctgggc 360
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 gttttttgca catttgaggt tgataaaatct gtctgtctgt tccaaggcct gngcctcatc 540
 catccacctt gcagcttctt taatatcttc agcatgctta tagatttttag ctntcacgag 600
 aaagangtct attaatgtag tgtactntca atagcagtat ttatgtactc canagcanta 660
 gatggctgac caatttttgc ataattgtgt gccaaagtagt acttgaccca 710

<210> 174
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 174
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 tacaataatc ctgaaattct tagcaccaag tattactttt aaaagtaaaag acaaccgagt 120
 gctctcccca catattgttg acttctctct actcacactg catgtcattt gagattttta 180
 aaagttagct gccacagttt tggaaaatgc cagtgtttta aaataattgt gttaaagaat 240
 caaaaagttta gcgtaacaga ttttgagtac ttcaaaccat tcaatgttac aaagaaaagt 300
 gaaaatacca ttcttttggt tagattagct gttcccttta cattaattta acattccgat 360
 ggctttttga aaacttttaa aatgttgaaa ctcactagac aaaacaaaa 409

<210> 175
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 175
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 ttttaactgga gcaaaaacaa gaagacatac atcttttgct gagacaaatt ctggagatac 180
 aatgaggtga agaagaaaat ggatcctggc ttccccaagc tcatcgaga tgccctggaat 240
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 ttcaagggtg cctattacct gaagctggag aaccaaaagt tgaagagcgt gaagtttgga 360
 agcatcaaat ccgactggct aggcgtgctga gctggccctg gctcccacag 410

<210> 176
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 176
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 cttgggcacg acacaatcag aattagtgtt ttttctaaaa ttcaagagtat ctgggatttt 180
 aaaagtagca cttttttaaa agttcaacaa gtcacataac acttaaaaaca tcaaaaaagc 240
 tttctgataa aaagctcagc ttttaaatca cgttttgctt ctgcaaatct gggagacaaa 300
 ttgagttctt actggaatgt ggccatcgc tggttgacaa atctgaaatg gaatgtctcc 360
 aaatggcagt gctccctctt ccgcccctcc taggaccaca ccaataacca gctcccaagc 420
 acaagttctt gctcccatct tttctgtagg ggtgggggtg ggaccttcag gct 473

<210> 177
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 177
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tcagaaagaa	gcgcttggtg	ataaaaaata	tagagaatta	ttttcttcaa	gcccgcctctg	120
cgctgcgccc	gcctccccgc	gcccggggccc	acggctgagt	gcgcggcgctc	agaggcccca	180
agtcacatctc	actatattaca	gatatgttac	aggccgggat	ggtcacagag	gaaagcccag	240
ctctcagcat	ggccccacgt	ggtgaggagc	ccccaggctc	ctcccggtctg	tctcgacag	300
agactgagaa	gcctgcgcgc	tcccggtggg	gcctaggctg	cgccgggctc	cacggggggg	360
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cg						423

<210> 178
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 178						
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cgctctttgcc	ctctgtcaca	taacttgaaa	actgcctgat	ggcctttttg	cagtgggtcc	120
ctccagggaag	ccttgatctc	agtgaagaa	gttcttttcc	ggcattccaa	tgccccctgtc	180
agctccatac	tcctcagaca	cccttaacaa	aggctgtcat	gcacacaatg	tgacaaaatac	240
acaaaaataaa	tgataattac	actaataatg	atatgttcag	agggggcactg	gccagggtcca	300
caca						304

<210> 179
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 179						
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gcaagtgtgg	ccaagaagag	catgatgtcc	tcttgagcaa	tgaagaggat	cgaaaagtgg	120
gaaaaactttt	tgaagacacc	aagtatacca	ctctgattgc	aaaactaaag	tcagatggaa	180
ttcccatgta	taaacgcaat	gttatgatat	tgacgaatcc	agttgctgcc	aagaagaatg	240
tctccatcaa	tacagttacc	tatgagtggg	ctcctcctgt	ccagaatcaa	gcattggcca	300
ggcagtacat	gcagatgcta	cccaaggaaa	agcagccagt	agcaggctca	gagggggcac	360
agtaccggaa	gaagtagctg	gcgaagcagc	tccctgcaca	tgaccaggac	ccttcaaagt	420
gccatgagtt	gtctcccaga	gaggtgaagg	agatggagca	gtttgtgaag	aaatataaga	480
gcgaagctct	gggagtagga	gatgtcaaac	ttccctgtga	gatggatgcc	caaggcccca	540
a						541

<210> 180
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 180						
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aagaataaaag	gagattgtga	agaaacattc	tcagtttatt	ggatatccca	ttactctttt	120
tgtggagaag	gaacgtgata	aagaagtaag	cgatgatgag	gctgaagaaa	aggaagacaa	180
agaagaagaa	aaagaaaaag	aagagaaaag	gtcgggaagac	aaacctgaaa	ttgaagatgt	240
tggttctgat	gaggaagaag	aaaagaagga	tggtgacaag	aagaagaaga	agaagattaa	300
ggaaaagtac	atcgatcaag	aagagctcaa	caaaaacaaag	cccatctgga	ccagaaaatcc	360
cgacgatatt	actaatgagg	agtacggaga	attctataag	agcttgacca	atgactggga	420
agatcacttg	gcagtgaagc	atttttcagt	tgaaggacag	ttggaattca	gagcccttct	480
atttgtccca	cgacgtgctc	cttttgatct	gtttgaaaac	agaaagaaaa	agaacaatat	540
caaattgtat	gtacgcagag	ttttcatcat	ggataactgt	gaggagctaa	ttccctgaata	600
tctgaacttc	attagagggg	tggtagactc	agaggatctc	cctctaaaca	tatcccgtga	660
gatgttgcaa	caaagcaaaa	ttttg				685

<210> 181
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 181

ttctcagagg	aacgagaatg	aatatgactc	aagccccggg	tctgggtggc	gcagtgggtg	60
ggttgggtgg	tgctctgctc	tacgctccca	tcacacaagat	tgaggagggc	catctgggtg	120
tgtaactacag	gggaggagct	ttactaacta	gccccagtgg	accaggctat	catatcatgt	180
tgccctttcat	tactacgntt	cagaatc				207

<210> 182
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 182						
aaatcattct	ggttcacgga	cacctccagt	agcactcaac	agttccagaa	tgagctgctt	60
cagtcgtcc	agcatgtccc	caacacctct	tgatcgctgc	agatcacctg	gaatgcttga	120
acctcttggc	agctctagaa	cacctatgtc	tgctctgcag	caagccggcg	gctccatgat	180
ggatgggtcca	gggtccccgaa	tacctgacca	ccagagaaca	tctgtgccag	aaaatcatgc	240
tcagtccagg	attgcacttg	ccctgacagc	tatcagtctt	ggcaccgctc	ggcctcctcc	300
gtccatgtct	gctgctggcc	ttgctgcaag	aatgtccag	gttccagccc	cggtgctctt	360
catgagtctc	agaaccgcac	cagcagccaa	ccctgctagc	aggattcctg	cagcctctgc	420
ggcagccatg	aacctagcca	gcgcccaggac	acctgcccatt	ccaacagcag	tgaacctggc	480
tgactctcga	acgccagctg	cagcagcggc	catgaacttg	gccagcccca		530

<210> 183
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 183						
tgtagatcaa	ctgaggcatc	tacttgtgag	taatgtggga	ggagatggag	aagagattga	60
aagattcttt	aaattacatc	aggaagacca	ggcttgtgca	acttgcccta	ttcttgcttg	120
ctccactgct	gcctgtgata	gagaagtatc	tgccctgggt	actcgggctt	tcttttaggt	180
tggtgggtgaa	gcacagatga	gattttccaac	cactcttccg	cctccaagta	atgttggtcc	240
catcttgggg	tctctgtct	attctagttc	tcctgttcc	agtggtagtc	cctatccaaa	300
tcocatccct	ttgggaacac	cgtctcatgg	tatacagcct	cctgccatgt	caactccagt	360
gtgtgctctg	ggaaacccag	caactcaggc	cacaaatatg	agttgtgtga	ctggaccaga	420
gattgtgtac	tctggaaaac	acaatgggat	ttgcattttac	ttttctcgga	tcattgggaaa	480
catcttgggat	gcaagcttag	ttgtggagag	aatattcaag	agtggc		526

<210> 184
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 184						
gaagaagagg	aagaggagga	ggagggaagag	cagccgcagg	cagcacagcc	tcaccacctg	60
cccggtggagg	agaagaagaa	gattccagat	ccagacagcg	atgacgtctc	tgagggtggac	120
gcgcggcaca	tcattgagaa	tgccaagcaa	gatgtcgatg	atgaatatgg	cgtgtcccag	180
gccccttgac	gtggcctgca	gtcctactat	gccgtggccc	atgctgtcac	tgagagagtg	240
gacaagcagt	cagcgttat	ggtcaatggt	gtcctcaaac	agtaccagat	caaagggtttg	300
gagtggctgg	tgctccctgta	caacaacaac	ctgaacggca	tcctggccga	cgagatgggg	360
ctgggggaaga	ccatccagac	catcgcgctc	atcacgtacc	tcattggagca	caaacgcac	420
aatggggccct	tcctcatcat	cgtgcctctc	tcaacgctgt	ccaactgggc	gtacgagttt	480
gacaagtggg	ccccctccgt	ggtgaagggt	tcttacaagg	gatccccagc	agcaagacgg	540
gcctttgtcc	cccagctccg	gagtgggaag	ttcaacgtct	tgctgacgac	gtacgagttac	600
atcatcaaag	ac					612

<210> 185
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 185						
gtttcttcca	gacaaaggaa	tatcaaaaaca	cttcgggcaca	agtacaacaa	aggcatggga	60
agatcatgat	aatgttttac	atcacatctt	acagcatctt	attttaatca	gtattctgtag	120
aaaacaagga	tgctgagttc	ttgaacactg	cagtcacaaa	ctcaaaactaa	aatttccaaa	180


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aaaaggaaaag aaaacactga actactttggt caactgaaca tctgtaataa taaatgtaac 240
gaaaccttaac caaataaata tgccactgag atcacaactg aagtgtatgg tttttagtgt 300
gtgccagaga cattaataa ttttaatcagt ttttgactac aacccaaaagc aaagcatcct 360
ctctgtttcc ctgagtattt attctaaaaa taaccttaaa aagcagaaaac ttgctgggta 420
aagagaattt ctg 433

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<210> 186
 <211> 377
 <212> DNA
 <213> Homo sapiens

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<400> 186
ataatgcaag ccccttgcatt gcaatccaaa tttattgaac tactgatgct aagttataca 60
aaattgcacc actttaatta aggccttttag tttacatttg gccacctcaa agtagttgta 120
acattaggtt ggtcaattta aatactgtgg ctccctgttg gatagacaca caatctttac 180
atccaaacat taatgcatac aaagcaacaa ggcattgtta aataaaacag caatagttac 240
tgcaaattag gccttgtgac caattacata tgattaaaaa tacttccac attcacatcc 300
acagtnactc gtccaccatt taacatctca ccaannacgt tacacatgtg aaacaatcac 360
taacaggcaa aaatact 377

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<210> 187
 <211> 413
 <212> DNA
 <213> Homo sapiens

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<400> 187
gctgtaggct gaggggaaga cttagactcc ttctttatat tgggtttcct tgagcctttg 60
gtggctgctt tgtgtctgct ggagggcatt ctgctagcca agtctacagg gggtttcactt 120
tctatcttca ggccctccacg aggcctcttca gcagctgcoct tctcagcctt tttgggttgt 180
tttttgccca cagttcttct ctgtgttgtg ctgtcactct gtgcaggaga tttgtgcctc 240
ccacgcccac tttctgatcc cttttggatg gttttggagt ctgctcccgg agtagcggaa 300
ctcgtttctt taggtccact tgtatcagtg tagctattcc cagtgccttg ctctcggcct 360
tcctttttgt agccttgaga tgatgggatg ttactgtcca ctgaagaggc ggg 413

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<210> 188
 <211> 378
 <212> DNA
 <213> Homo sapiens

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<400> 188
ctgaaaagcc atcttttgcatt tgttccctcat ccgcctcctt gcccgcgcga gtgcgcctccg 60
ccgcgcgcct cctccgcgcg cgcggactcc ggcagcttta tccgccagagt ccttgaactc 120
tcgctttctt ttttaatcccc tgcctcggat caccggcggtg cccaccatg tcagacgcag 180
ccgtagacac cagctccgaa atcaccacca aggacttaaa ggagaagaag gaagttgtgg 240
aagaggcaga aaatggaaga gacgcccctg ctaacgggaa tgctaattgag gaaaatgggg 300
agcaggaggc tgacaatgag gtagacgaag aagaggaaga aggtggggag gaagaggagg 360
aggaagaaga aggtgatg 378

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<210> 189
 <211> 545
 <212> DNA
 <213> Homo sapiens

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<400> 189
tctgtcagaa gttgtagcag tgttgtatag tgtttgattt catggactct gtttcagact 60
tgaagagcaa agaaattaaa agagcaaac tgaatgaact ggttgagtat gtttcaacta 120
atcgtgggtg aattgttgaa tcagcgtatt ctgatatagt aaaaatgac agtgcttaaca 180
tcttccgtac acttcttcca agtgataatc cagattttga tccagaagag gatgaaccca 240
cgcttgaggc ctcttggcct cacatacagt tggatatga attcttcttg agatttttgg 300
agagccctga tttccagcct agcattgcaa aacgatacat tgatcagaaa tttgtacaac 360
agctcctgga gctttttgat agtgaagatc ccagagaacg tgacttcttg aagactgttc 420
tgcaccgaat ttatgggaaa tttcttggat taagagcatt catcagaaaa caaatttaaca 480
acattttcct caggtttata tatgaaacag aacatttcaa tgggttgcgt aacttcttga 540
atatt 545

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<210> 190
<211> 648
<212> DNA
<213> Homo sapiens

<400> 190
gggtgtgga ttgtgtggga cgggtctgggg cagcccagca ggggttgacc ctctgacctgc 60
gggggaaggga gtgcgccaggc ggccgtcatg ggggtgtcgg agagccagct caagaaaatg 120
gtgtccaagt acaaatacag agacctaaact gtacgtgaaa ctgtcaatgt tattactcta 180
tacaaagatc tcaaacctgt tttggattca tatgttttta acgatggcag tttccaggga 240
craatgaacc tcaactggaac aatccctgtg ccttatagag gtaatacata caatattcca 300
atatgcctat ggctactgga cacataccca tataatcccc ctatctgttt tgttaagcct 360
actagttaa tgactattaa aacaggaaaag catgttgatg caaatgggaa gatatacttt 420
ccttatctac atgaatggaa acaccacag tcagacttgt tggggcttat tcaggtcatg 480
attgtggtat ttggagatga acctccagtc ttctctctgc ctatttcggc atcctatccg 540
ccataccagg caacgggggc accaaatact tcctacatgn ccagcatgcc aggtggaatc 600
tctccatacc catnncgata cncctccant cccagtgggt acccagct 648

<210> 191
<211> 339
<212> DNA
<213> Homo sapiens

<400> 191
gctgtttaag ctcaggctaa agatgatata aatagaggtg caccatccat cacatctgtc 60
acaccaagag gactgtgcag agatgaggaa gacacctctt ttgaatcact ttctaaatc 120
aatgtcaagt tttccacctat ggacaatgac tcaactttct tacatagcac tccagagaga 180
cccggcatcc ttagtcctgc cactgtctgag gcagtgtgcc aagagaaaatt taatatggag 240
ttcagagaca acccagggaa ctttgttaaa acagaagaaa ctttatttga aattcaggga 300
attgacccca tagcttcagc tatacaaaaac cttaaaaaca 339

<210> 192
<211> 252
<212> DNA
<213> Homo sapiens

<400> 192
tgatagtgat ggatggacgc cgctgcactg cgctgcctct tgtaacagcg ttcacctctg 60
caaacagctg gtggagagtg gtgcccgcct ttttncctca accataagcg acattgaaac 120
tgctgcagac aagtgtgagg ngatggagga aggtacatc cagtgtctcc agtttctata 180
tgggtgagc gtgaagctgg gtgtgatgaa caaagggtgtg gcnnatgctc tgtgggacta 240
cgaggccccag aa 252

<210> 193
<211> 272
<212> DNA
<213> Homo sapiens

<400> 193
gacaaacagg actaccgcga gccctcggac ctgtccacct ttgtaaaacga gaccaaattc 60
agttcaccca ctgaggagtt ggattacaga aactcctatg aaattgaata tatggagaaa 120
attggctcct ccttacctca ggacgacgat gccccgaaga agcaggcctt gtaccttatg 180
tttgacactt ctcaggagag cctgtcaag tcaatctccc tccgcatgtc agagtccccg 240
acgccgtgtt cagggtcaag ttttgaagag ac 272

<210> 194
<211> 334
<212> DNA
<213> Homo sapiens

<400> 194
gagancctgg aaaaattaac cacatgagan acgatacact agcccagatg ttgacgttgg 60
gaaatatccg tncctggcaac aaaatgattg tnatggaaac gtgtgcaggc ttggtgctgg 120
gtgcaatgat ggaacgaatg ggaggttttg gctccattat tcagctatac cctggaggag 180

gacctgttgcg	ggcagcaaca	gcattgttttg	gatttcccaa	atctttttctc	agtgggtcttt	240
atgaattccc	tctcaacaaa	gtgggacagt	cttctacatg	gaacattttc	tgccaagatg	300
ttatcttcag	agccaaaaga	cagtgccttg	gttg			334

<210> 195
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 195						
ttttgggtttt	gtcaaatgtt	ttattgagtg	tagacatctg	gagtactgta	aaacatgcat	60
tatctgtaga	ttcaaaaagg	agcaagccac	attgtcctca	ctgtcaaatg	tgtcaggctt	120
ggcatacatg	atggagatta	atgaagtatc	atgagagtaa	tatggttcct	gaaaagcttc	180
tacaattttg	agtagggctt	taatcacgtg	aaaaagcaaa	ctgttcacat	ttagtgaacc	240
tgcaatttcat	ggaggggggg	gggtacacan	tattttcaatt	ttaaaacaaa	taaaaaataat	300
ttgtttgtca	aagattccca	tctccccaac	tttatttgtc	gcattgggtt	tc	352

<210> 196
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 196						
ttatgaagaa	gaaattattc	atttttaagaa	agaacttcga	gaaccacaat	ttcgggatgc	60
tgaggaaaaag	tatagagaaa	tgatgattgt	tatgaggaca	acagaacttg	tgaacaagga	120
tctggatatt	tattataaga	ctcttgacca	agcaataatg	aaatttcaca	gtatgaaaaat	180
ggaagaaatc	aataaaaatta	tacgtgacct	gtggcgaagt	acctatcgtg	gacaagatat	240
tgaatacata	gaaatacggc	ctgatgccga	tgaaaaatgta	tcagcttctg	ataaaaaggcg	300
gaattataac	taccgagtgg	tgatgctgaa	gggagacaca	gccttggata	tgcca	355

<210> 197
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 197						
gcacgagtct	acatccagag	gaccaagagc	atgttccaga	ggaccacgta	caagtatgag	60
atgattaaca	agcagaatga	gcagatgcat	gcgctgctgg	ccattgccct	cacgatgtac	120
cccattgcgt	ttgatgagag	cattcacctc	cagctgcggg	agaaatatgg	ggacaagatg	180
ttgcgcattg	agaaagggtga	cccacaagtc	tatgaagaac	ttttcagtta	ctcctgcccc	240
aagttcctgt	cgctctgtat	gcccactat	gataatgtgc	accccaacta	ccacaaagag	300
cccttcctgc	agcagctgaa	ggtgttttct	gatgaagtac	agcagcaggc	ccagctttca	360
accatccgca	gcttcttgaa	gctctacacc	accatgcctg	tggccaagct	ggctggcttc	420
ctggacctca	cagagcagga	gttccggatc	cagctt			456

<210> 198
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 198						
gcacgagata	ctgtgaaata	ctttttctca	caaaaaggca	aatattgaag	ttgtttatca	60
acttcgctag	aaaaaaaaaa	cacttggcat	acaaaatatt	taagtgaagg	agaagtctaa	120
cgctgaactg	acaatgaagg	gaaattgttt	atgtgttatg	aacatccaag	tctttcttct	180
tttttaagtt	gtcaaagaag	cttccacaaa	attagaaagg	acaacagttc	tgagctgtaa	240
tttcgcctta	aactctggac	actctatatg	tagtgcattt	ttaaacttga	aatatataat	300
attcagccag	cttaaaccca	tacaatgtat	gtacaatata	atgtacaatt	atgtctcttg	360
agcatcaatc	ttgttactgc	tgattcttgt	aaatcttttt	gcttctactt	tcactctaaa	420
ct						422

<210> 199
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 199
 cgatggagac atcaaaacaag agccaggaat gtatcgggaa ggacccacat accaaccggc 60
 aggatcactt cagctctggc agtttttggg agctcttctg gatgacctt caaatcttca 120
 ttttattgcc tggactgggc gaggcattgga atttaaaactg attgagcctg aagaggtggc 180
 ccgacgttgg ggcattcaga aaaacaggcc agctatgaac tatgataaac ttagccgttc 240
 actccgctat tactatgaga aaggaattat gcaaaaagggtg gctggagaga gatattgtota 300
 caagtttctg tgtgatccag aagccctttt ctccatggcc ttccagata atcagcgtcc 360
 actgctgaag acagacatgg aacgtcacat caacgaggag gacacagtgc ctctttctca 420
 ctttgatgag agcatggcct acatgc 446

<210> 200
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 200
 cgaaaagaaa tcagaaatgg aaagtgtttt ggcccagctt gataactatg gacagcaaga 60
 acttgcgga ctttttctga actataatgt aaaatctccc attactggaa atgatctatc 120
 cctccagtg tcttttaact taatgttcaa gactttcatt gggcctggag gaaacatgcc 180
 tgggtacttg agaccagaaa ctgcacaggg gattttcttg aatttcaaac gacttttggg 240
 gttcaaccaa ggaaagtggc cttttgctgc tgcccagatt ggaaattctt ttagaaatga 300
 gatctccctt cgatctggac tgatcagagt cagagaattc acaatggcag aaattgagca 360
 cttcttagat cccagtggag aaagaccacc ccaagtcca gaatgtggca gaccttcacc 420
 tttatttgta ttcagcaaaa gccaggtca gcggacagtc cgctcgaaa atgcgcctgg 480
 gagatgctgt tgaacagggt gtgattaata acacagtatt aggctatttc attggccgca 540
 tetacctcta cctcacgaag gtggaatatt ttcagataaa c 581

<210> 201
 <211> 625
 <212> DNA
 <213> Homo sapiens

<400> 201
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 ccgcccctgc ctggcccaga gcctggagca tgatgagcac tctgtccct ttaaaaaatc 120
 aaagccgcac cccgcctccc tggccagcaa gaaacctaaa agggaaacaa actctgacag 180
 cgtcccacct ggctacgagc ccattctcgt gctcgaggcg ctcaacggcc tccgggctgt 240
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 cggcctgtcc caggccagnt gtccccctgc ggctatcgac cacatcctgg acagcagcg 360
 ccagaagggc aggcgcgaga gcaaggcccc cgacagcacc ctacgggtccc cgtcttcccc 420
 catccacgaa gaggatgagg agaagctctc cgaggacgtg gacgccccct cccactggg 480
 tggcgagag ctggccctgc gggaaaagcag ctcccctgag agtttcataa cagaagagg 540
 tgatgagtcg tctgtcacca caagcaagg gacccagca gcttccattg agaatgtcct 600
 gcangacaag caagncccga gcaact 625

<210> 202
 <211> 806
 <212> DNA
 <213> Homo sapiens

<400> 202
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 tgttcaaaac acttcatggc cccagtgtct aaagacctgt ggaactggta tctccacacg 120
 agttaccaat gacaaccttg agtgccgct tgtgaaagaa acccggaatt gtgaggtgag 180
 gccttctgga cagccagtgt acagcagcct gaaaaagggc aagaaatgca gcaagaccaa 240
 gaaatcccc gaaccagtca ggtttactta cgtctgatgt ttgagtgtga agaaataccg 300
 gcccaagtac tgcggttctt gcgtggacgg ccgatgctgc acgccccagc tgaccaggac 360
 tgtgaagatg cggttccgct gcgaagatgg ggagacattt tccaagaacg tcatgtgat 420
 ccagtccctg aaatgcaact acaactgccc gcattgccaat gaagcagcgt ttcccttcta 480
 caggctgttc aatgacattc acaaatttag ggactaaatg ctacctgggt ttccagggca 540
 cacctagaca aacaaggag aagatgtcag aatcagaatc atggagaaaa tgggcggggg 600
 tgggtgtgggt gatgggactc antgtagaaa ggaagccttg ctccantcctg aggananta 660
 aggtattctg aaactgccaa ggggtgctgt gcggtggac actaangcag ccacgattgg 720

agaataacttt gntcatagt antggagcac agttacngct caatttggag cntgtggaat 780
tgagacttcc ngnttccggg tgaaat 806

<210> 203
<211> 489
<212> DNA
<213> Homo sapiens

<400> 203
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acatacaaat attacctcat ttgttgtgtg actgagtaaa gaatttttgg atcaagcggg 120
aagagttttaa gtgtctaaca aacttaaaagc tactgtagta cctaaaaaagc cagtgtttga 180
catagcataa aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa 240
atacaatttc tgaaagttat gttttttttc tatcatctgg tataccattg ctttatcttt 300
ataaattatt ttctcattgc cattggaata gatattctcag attgtgtaga tatgctattt 360
aaataattta tcaggaaata ctgcctgtag agtttagtatt tctattttta tataatgttt 420
gcacactgaa ttgaagaatt gtcgggtttt tctttttttt gtttngntt tttttttttt 480
tttttttttg 489

<210> 204
<211> 403
<212> DNA
<213> Homo sapiens

<400> 204
caagctcaga aggggtcatct cagagttcac tctctctgt actcattggg ggaaaccatt 60
tgatcactgc aggtgtgcca aggcgaagta aaagaattgc aggcacaaaaa gtttgcagag 120
tggaatcagg aaaagcaggc tgctttttct ctaaaatcaa gccataaaga aaagggttccg 180
aagatctctg ccgtttgaaa ttcaatctag ggaaaaatgg cagagaagta aatgggatgt 240
tctgggtgca ataggatatt gaaagtgttg gttggggcagc ttgcaaatca acaaagttta 300
aaaaatccga attngaattc gtaaaaaacag gtttgctttt taagcccagn atgttggatt 360
ggaaaaangt taccanaaga aaggggttca agaaaaagga tca 403

<210> 205
<211> 462
<212> DNA
<213> Homo sapiens

<400> 205
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aaaccttaca aaactcatca aaactcgcaa actgatcaga aaagtctctc ggaagactag 180
aaaaaatact ttattgtctt aatcatgcat tacacaaaaca aaatcttttag ttacaccata 240
aaattaagca catctaaaaa aataaaaacag ggataactag tcaaaaacaca gcagatttct 300
gtatcctgat tcaactatct ttgtatccta ttgtaatgc aaataaaaact ttactccaaa 360
tattttttaa caagtttagt ttgtttggaa tcatggtaaa ccaagatata tatcttaggg 420
ggaaccacct tgggttgtaa tttaaaactat aaaatactcc at 462

<210> 206
<211> 724
<212> DNA
<213> Homo sapiens

<400> 206
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ttcttgcctc attaaacgct ggatgcttgc agtaaatatt tctagtgtgt tctcatttc 120
tcgttcaacta tgcctgaact taactactct ttctcaagt tgtactttct gttcttggat 180
ttgcattgct ttttttagag cgttttgcaa ctgtgattcc attttgttta cctcttcttc 240
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agtcaattgta cctgactgtt ctatgatttg tccctgtaaa gttaccactc tccatcttct 360
atctttttga tatgtacttc ttgtggcttg atccaagttg tcagctacta aggtatctcg 420
taaagcaaaa taaaaagctt ggcgaatttt ctcatctttt acttttacta aatcaataaa 480
acgaggagta ttttcaggag ttggaatttc ggtcatcttt ttggcccata cagccatctt 540
atctaaaacct ataaaaagtg caactccaat atttttgtct ttttaaggag ttacacattt 600

cttgggctat atcaaataga tcaaccaaca atgtagtcca gtgcatgaca acaggatgat 660
 ataaccacct cggatttttt attaatgggt tctaaggccc caatcgcca tatattttctg 720
 gaac 724

<210> 207
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 207
 cctcgtgcaa gttanagggt cgcnggtntg cagacctcac agaagattag ctacctctct 60
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 cccagatcaa ggaggggaaa cgtgtactga ttgcagccca tggcaacagc ctccggggca 180
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 gtattcccat tgtctatgaa ttggacaaga acttgaagcc tatcaagccc atgcagtctc 300
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 agaagtgaag g 371

<210> 208
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 208
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 ggacaagggt gcagaccttc ggttgaaaat ggctgagagg aacgtcatgt ggtttgtggg 180
 cactgccttg gatgagattg cgtggctatt taatctccga ggatcagatg tggagacaaa 240
 tccagtattt tnntcctacg caatcatagg acttagagac ggtcatgctc ttcattgatg 300
 gtgaccgat agacggcccc agtggtgaag gagcacctgn tttctttaac ttgggcttg 359

<210> 209
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 209
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 atcgtctgat tcttaccgga gcgaaaagca aaagtaatgg ggaagagggc tatggccgga 120
 gcttgagata cgcgcctctg aatcttgccg ccttgcactg ccgcttcggg cactatcaac 180
 aggcagagct cgccttgca gaggcaatta ggattgccc ggagtccaac gatcacgtgt 240
 gtctccagca ctgtttgagc tggctttatg tgctggggca gaagagatcc gatagctatg 300
 ttctgctgga gcattctgtg aaganggcag tacatttttg gggtaccgta cct 353

<210> 210
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 210
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 catccggatt caatcccttt gcttttaatt tggcttcttg taaggctact tttctttttt 180
 ctactctttt ttccagtaat tcatagtctg gcttttttct ggtataaagc ctaagtgttt 240
 ctatgcagat ttcttggatt tctctctctg tagtaccaaa aagaagaaac caatggggac 300
 gagttggcaa cggaatctga agtgctctag ctgcaaggta gatgcaagca catgctatag 360
 tctctgggtg aaatcgaaca aacacattgg ttcgaaagact gtcattcatg taattccagg 420
 cagtttgaac caggggtttg ttacgttcac attctaagac ttgtaaatag ataacaatga 480
 tcttatgagg atgcttgaca tgaacacaaa atcccaactc ctttagcacc ctctctctg 540
 ctttgataac ttgatttttg gtgttaatgt agttctgata aaggatcacg gggcttggag 600
 tctttttctt ttttaactggc sgaggtgggt gaatacatta atcacatctc t 651

<210> 211
 <211> 789

<212> DNA
<213> Homo sapiens

<400> 211
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ccattgacat ccattcaccag caaatccaac atgggtccatc gattttttgct aaaaaacaaa 120
acagatgtgc tcctcctccc agaagagggtg gaattggatca aattttaattg gggcatgaat 180
ggctattaca ttgtgcatta cgaggatgat ggatgggact ctttgactgg ctttttanaa 240
ggaacacaca cagcagccag cagtaatgat cgggcaagtc tcattaacaa tgcattttcag 300
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catgaaactg aaattatgcc cgtgtttcaa gggttgaaat agctgattcc tatgtataag 420
ttaatggaga aaagagatat gaatgaagtg gaaactcaat tcaaggcctt cctcatcagg 480
ctgctaaggg accctcattga taagcagaca tggacagacg agggctcagt ctcagagcaa 540
atgctgcgga gtgaactact actcctcgcc tgtgtgcaca actatcagcc gtgcgtacag 600
agggcagaag gctatattcag aaagtgggag gaatccaatg gaaacttgag cctgcctgtc 660
gacgtgacct tggcagtggt tgctgtgggg gcccagagca cagaaggctg ggattttctt 720
tatagtaaat atcagttttc tttgtccagt actgagaaaa gccaaantga attttcccc 780
ttcagaaca 789

<210> 212
<211> 457
<212> DNA
<213> Homo sapiens

<400> 212
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ccagggtcgg atccggagcc cttcccccgg gggcggggac ctccaaacaa ccgactccct 120
tcagctgaa gaaacactta aattctggaa atagcgactc agtatcatgg ccagcagcct 180
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gaaaacagac tcttttagccc actgtatcag tgaggattgt cgcattggcg ctgggatagc 300
tgtcctcttt aagaagaaat ttggaggggt gcaagaactt ttaaatcaac aaaagaaatc 360
tgagaaagt gctgtttctga agagagatgg gcgatataa tattacttga ttacaaagaa 420
aagggtcttg cacaagccaa cttatgaaaa cttacag 457

<210> 213
<211> 727
<212> DNA
<213> Homo sapiens

<400> 213
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tgatgctgag aagttttcgtt gataacctgt ccattctctag tttcaaccgt cttaatcaga 120
agtgtccttt ttgagtgggt atcaaccaga gggagtgaat ccagattagt ttccctcagg 180
ttcagggagg aaaagttttg aagaggcaga gaaatcctgc tctcctcggc ttccagcagc 240
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atagtgtcct ggtagtttag agcttcaacg gcaaagttct cttccatttc acgcatctgg 420
cgttccaggg actcattggg tcccttaagg gcatccactt cacagggtgag ggactgcacc 480
tgtctccggg actcagtgga ctcctgcttt gcctggcgca gggcgtcatt gttccggttg 540
gcagcctcag agaggtcagc aaacttggat ttgtaccatt cttctgcctc ctgcaagttc 600
ttggcagcca cactttcatt ttgctgacgt acgtcacgca gggcagcgct gaggtcaagc 660
ttggaaacat ccacatcgat ttggacatgc tgttcctgga tctgagcctt gcgcttcttg 720
atttctt 727

<210> 214
<211> 622
<212> DNA
<213> Homo sapiens

<400> 214
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gcttttaagc aaatgcagga ctgtgtgtga acagagaaac tcactccaag agcaagaagc 120
caaagaaaga aaaactaaag atgatgaagg agcaactccc attaaaaggc ggcgtgttag 180
cagtgtatgag gagcacactg tagacagctg catcagtga acgaaaaacag aaaccaggga 240

ggctcctgacc	ccaacgagca	cttctgacaa	tgagaccaga	gactcctcaa	ttattgateg	300
aggaactgag	caagatcttc	cttccccctga	aaatagttct	gttaaagaat	accgaatgga	360
agttccatct	tcgttttcag	aagacatgtc	aaatatcagg	tcacagcatg	cagaagaaca	420
gtccaacaat	ggtagaratg	acgattgtaa	agaattttaa	gacctccact	gttccaagga	480
ttctaccsta	gctgaggaag	aatctgagtc	cccttctact	tctatctctg	cagttctgtc	540
tgacttagct	gacttgagaa	gctgtgatgg	ccaagctttg	cccttccagg	accctgaggt	600
tgctttatct	ctcagttgtg	gc				622

<210> 215
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 215						
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acatcataca	aatgtaaata	caaaattact	acagtacaat	atataatttc	tgcatgatcc	120
aaaatatttg	gtggccccc	aaaactctct	ttaaaattca	gcagcttata	aaaaattaaa	180
accgtattct	atttaaaatg	gagatctgtt	agcacagagt	tagacttcaa	gaaatatcaa	240
tttagtacag	tttgagaagt	tgaggaggga	tatgtttgaa	ggacacattc	taacatagtg	300
tgccaggtac	aggaaacatc	agattttaaag	cttttaagca	taactcatac	aacctaagtt	360
gtcagcagaa	agatccagtt	atattttgtaa	ctaaagctaa	tgctactaaa	ttattgcacc	420
caatgttaac	atattaagtg	taaaaactg				448

<210> 216
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 216						
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ggatcatttt	ctcagaatga	gattttttgtt	ctttcagctt	ttcaataaga	tgggtaagat	120
ctgtccagtg	tgtgtcagtc	aactgttcaa	gcagtttttg	aggagtgtcc	ttttctttca	180
aataggcatg	ttgaagggtc	tctataggat	gaccatgatg	ttgacctatg	gtaaggcaat	240
gaccacaaac	taattttttta	tctaataagac	agtaaacatt	taatgggttc	ctgtaatgtt	300
cagggcaggt	gacaatatct	ggatgggtctt	cttgctggta	cttttcaata	atagccctta	360
gtgcaaaaatt	aacagggtaaa	gattcaatgc	cagtgggagc	aattttcagta	atacttctgc	420
aattagggca	cttgagtggg	attcgtaaaag	gtctccatat	ataaaaagtt	ccagatgcct	480
gaagaatgtt	ttccaaacaa	tttctacaaa	atgtatgaga	gcattggcag	acacgaggat	540
cttcaaaaat	actataacat	atggggacaag	ttaactcttg	ctcanaaattg	tgcat	595

<210> 217
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 217						
aagtgggtgg	gcttgccaag	ctcgacacca	gtgcgactga	ggccagggcc	ctcgcccttc	60
accttactgg	cgctcatgaga	gggtccacc	ttgactcgga	tggggctggg	gggcgtggcc	120
tggtcagcaa	agaggaccat	aatgggtgat	ctg			153

<210> 218
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 218						
tagatggcta	cttccggctc	acagcagatg	cccatcatta	cctctgcacc	gacgtggccc	60
ccccgttgat	cgctccacaac	atacagaatg	gctgtcatgg	tccaatctgt	acagaataacg	120
ccatcaataa	attgctggcaa	gaagggaagc	aggaggggat	gtacgtgctg	aggtggagct	180
gcaccgactt	tgacaacatc	ctcatgaccg	tcacctgctt	tgagaagctc	gagcaggtgc	240
aggggtgccc	gaagcagttc	aagaactttc	agatcgaggt	gcagaagggc	cgctacagtc	300
tgacaggttc	ggaccgcagc	ttccccagct	tgggagacct	catgagccac	ctcaagaagc	360
agatcctgcg	cacggataac	atcagcttca	tgctaaaacg	ctgctgcccag	cccaagcccc	420
gagaaatctc	caacctgctg	gtgggt				446

<210> 219
<211> 581
<212> DNA
<213> Homo sapiens

<400> 219
acggatagcg gatctgcgac aggggctgct ggacatcagc aaccatttca tccccctctgc 60
tggggacttt ggctggtaga ctattttcca tccgagcttc ctcttcagct ttttccgttt 120
ggtcagtttt tgggttcactt ttccctctcaa actgtgatgc ttcttgagac tgatgggtctg 180
aaggagtagc tgggtctagca gatgatgatg aggtctgggg agtttcccca cttagcttcaa 240
ctccactact atctgttttc tctccttctt tcttatttgt cttatcgggt tctttggcct 300
cttcattatg gctaccccca gagtcagagc actcctcccc ttctgaccca ggccggaagt 360
ccatctcctg ctcttctgga ataggctctt tctgtacttt ttttagagaa aggaatgctc 420
cagatgagtc aaatgtaccc atttcttctt cagcatcctc taagcaccat tcgggcaagc 480
tatccctgtc atcatctatg cttccactgc cagagcgaac ccgataagac aaataagaaa 540
gaaggagaga aaacagatcc gctagcagat ccgctatccg t 581

<210> 220
<211> 372
<212> DNA
<213> Homo sapiens

<400> 220
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gatgaggaag aagaagatgg aactatgaaa agaaatgcaa cctcaccaca agtacaaaaga 120
ccatcttttca tggactactt tgataagcaa gacttcaaga ataagagtca cgaaaactgt 180
aatcagaaca tgcattgaacc cttccctatg tccaaaaacg tttttcctgg attaaactggg 240
aaagtccctc caagatggga gactttttga ctttttttgg aaaaatctta agtttttaggn 300
aggaacttac cagggttgcgg gtttaaaaaag gcacttggga ccccatgggt tggggaacgg 360
ggnggttagg ga 372

<210> 221
<211> 448
<212> DNA
<213> Homo sapiens

<400> 221
tttttttttt ttttatgatg cactccaagt gccatattgc tattttattc ttcaggaaat 60
tatatttttc ttttacaaga gcacaacagg aaccaaaagta aaagagttaa agatacagca 120
ctcaggataa atcatatctt taaaataata ataaaaaaat ttacaccttg tcttatatcc 180
tgtttagtatt ttcataatat ggccatgatt gaaaaaacaa aaagcaagca tctacaattt 240
tttttgataa agacttttta tggcaggaat ggatttaatta ccaacaaaat ttataactaa 300
caggctgatg tcaatctatt tttgtaattg atcatttaaca aattttattt ggaaaagata 360
aaaatattgc cctttgataa taaatctttt tttcctttga tgcaaacagc tagaacacct 420
tttttttttt ctttttgata ttctaaga 448

<210> 222
<211> 373
<212> DNA
<213> Homo sapiens

<400> 222
gttgacatg ccgtcggcca tgactgtgta tgctctgggt gtgggtgtctt acttccctcat 60
caccggagga ataatttatg atgttattgt tgaacctcca agtgtcgggt ctatgactga 120
tgaacatggg catcagaggc cagtagcttt cttggcctac agagttaaag gacaatatat 180
tatggaagga cttgcatcca gcttcctatt tacaatggga ggattagggt tcataatcct 240
ggaccgatcg aatgcaccaa atatcccaaa actcaataga ttcttcttct tgttcattgg 300
attcgtctgt gtccatttga gttttttgat ggctagagta ttcattgagaa tgaaactgcc 360
gggctatctg atg 373

<210> 223
<211> 386
<212> DNA

<213> Homo sapiens

<400> 223
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ggcagccctg ggagccctc catttgagaa acctaatatt gagcaggggtg tgcgtgaactt 120
tgtgcagtao aagtttagtc acctggctcc ccgggagcgg cagacgatgt tgcagctctc 180
aaagatgttc ttgctctgcc ttaactactg gaagcttgag acacctggcc agtttcggca 240
gaggtctccag gctgaggacg tggctacctt caaggctcaat tacaccagat ggctctgtta 300
ctgcccagctg ccccagagct gtgatagcct ccccgctac gaaaccaact atgtctttgg 360
gcgaagccctt ctccgggtcca ttttca 386

<210> 224

<211> 593

<212> DNA

<213> Homo sapiens

<400> 224
ggcaccgagga ttgcacacct aaaccttcga gatcatcagc tgccttttcaa acattttaatt 60
ggcaggggtta tgattgacaa aaatccagga atcacctcag cagtaaaataa aataaaataat 120
attgacaata tgtaccgaaa ttcccaaatg gaagtgttat ctggagagca gaacatgatg 180
acaaaagggttc gagaaaacaa ctacacctat gaatttgatt tttcaaaagt ctatttgaat 240
cctcgctctgt ctacagaaca cagccgtatc acagaacttc tcaaacctgg ggatgtccta 300
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aataaaagtgg accaaaagggt gaaagtcttc aacttggatg ggaaaagact cctccaagga 480
ccagtcaaaag aagagttaat gcagctgctg ggtctgtcaa aagaaagaaa accctctgtg 540
cacgtttgtca tgaacttgcc agcaaaaagct atagagtttc ttagtgcttt caa 593

<210> 225

<211> 477

<212> DNA

<213> Homo sapiens

<400> 225
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cgctcccgtt ctgcctcacc caggatgagt tccaccggtt catcgaggcc ctgctgcctc 120
acgtccgcgc cttcgccctac acctggttca acctgcaggc gcggaagcgc aagtacttca 180
agaagcacga gaagcggatg tcgaaggacg aggagcgtgc ggtcaaggac gagctgctgg 240
gcgagaagcc cgaggtcaag cagaagtggg cgtcgcggtt gctggccaag ctgcgcaagg 300
acatccggcc cgagtgcgc gaggacttcg tgctgagcat caccggcaag aaggcgccgg 360
gctgcgtgct ctccaacccc gaccagaagg gcaagatgcg gcgcacgcag tgtctccggc 420
aggcggacaa ggtgtggcgg ctggacctgg tcatggtcat cctgttcaag ggcattcc 477

<210> 226

<211> 299

<212> DNA

<213> Homo sapiens

<400> 226
gccaaagctc aatacccccatt tgctgatttg gtaaagatgc tcaactgagca aggcacaaaaa 60
gtcaggtttg gaattcaccct agttgcaggc cgaatgcctg gncagcttaa tgtgctgctg 120
gctgaggtct gtgtgccata tgacattgtg ttggaaatgg atgagatcaa ccatgatttt 180
ccagatactg atttgggtcct tgtaatttga gctaattgaca ctgttaattc agcagctcaa 240
gaagatccca actctattat tgcaggcatg ccagtccttg aggtctggaa atcaaaagca 299

<210> 227

<211> 390

<212> DNA

<213> Homo sapiens

<400> 227
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agtgtttgtc ttgtctgaa tgagaagtga gaaggttttt atactctggg atgcaaccga 120
catgtttcaaa tgtttgaaat cccacaatgt tagaccaatc ttaagttctg taagttattt 180

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cctttaagat atatattaaa cagaaatcta agtagaactg cattgactaa ccagtccttc 240
tggatggggg tgaacotgaa gcatgcttta acctctaaga ctgtctaaca cgcgttccat 300
tcaatgtctc cacagactgg gtagcaaaaa aatcaccttc tagttcttagt ttttaattcta 360
aagatgttag acagatgctg agtgtgcttc

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<210> 223
<211> 423
<212> DNA
<213> Homo sapiens

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<400> 223
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gagattgctg gtgttggtgt cccagaactg atcaactctc ctaaagatgc atcttctctc 180
acattcccta cactgaccag gcatactttt gttgttttct tccgtgtgat gatggctgaa 240
ctagagaaga cggtgaaaaa attgagcctg gcacagcagc agactcgcag cagatttcat 300
gaagagaaac tctctactg ggaacatggg ctgttcgaga cttcagttat ctcatccaac 360
tggattaaa ggtattttga tagttcatcc tgttctggc atgtatgttc ggaaggggaag 420
gat
423

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<210> 229
<211> 417
<212> DNA
<213> Homo sapiens

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<400> 229
tagaaaaaga aagaaaactt gaaaactaat ctgatattaa gccatcaaat gtggaaccta 60
tggaaaagga gtttgggctt tgcaaaactg agaacaaagc caagtcgggc aaacagaatt 120
caaagaagct gtactgccaa gaacttaaaa aggtgattga agcctccgat gttgtcctag 180
aggtgtttga tgccagagat cctcttgggt gcagatgtcc tcaggtagaa gaggccattg 240
tccagagtgg acagaaaaag ctgggtactta tattaataaa atcagatctg ggtaccaaag 300
gaggatttgg gagagctggg ntaaaattatt ttgaaggaaa gatttgccca acagtgggtg 360
tttcagagcc tcaacaaaaa cccaaagggt taaagggggn gggtttacca ggggtttc 417

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<210> 230
<211> 441
<212> DNA
<213> Homo sapiens

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<400> 230
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441

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<210> 231
<211> 333
<212> DNA
<213> Homo sapiens

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ggaccacaga actatggagg tgcaatgaga ccccactga atgctttagg tggccctggg 180
aatgcccggg aatgaacatg ggtccagggt gtggtagacc ttggccaaac ccaacaaatg 240
ccaatttcaa ttaccatact ccttcagcat ctccctggga atttattgtt aggtcctcca 300
gggaggttga ngggccacca gggnacaccc ttc
333

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<211> 402

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<212> DNA
<213> Homo sapiens

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<210> 233
<211> 492
<212> DNA
<213> Homo sapiens

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cacgggaacc cgaacntggc nttggnttgg ggntaacttt ttgaggggtt ttttgtccaa 420
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gttctnngggg ac 492

<210> 234
<211> 321
<212> DNA
<213> Homo sapiens

<400> 234
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acataggtac ctgaggtacc tgagagcccc tcaggggangg nggcccagtg gctgtggctg 240
aggcccccac cctccccctg gaacgcgccc caagccggan tgggtgcagc cggaaccn 300
ccagcgtttt agactgtagc a 321

<210> 235
<211> 359
<212> DNA
<213> Homo sapiens

<400> 235
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tgttttctgt tttccccctt cccacctctt tccccccacc caatcctttt tttttttttt 359

<210> 236
<211> 306
<212> DNA
<213> Homo sapiens

<400> 236
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 gtnttc 306

<210> 237
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 237
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 aaagagaccc ctaantatgg cctttttggn ttgtt 395

<210> 238
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 238
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 cccaattaga agagatatag tagactatat gaagagagat tataattgtt acacaccaat 180
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 tanattatac cntttatata 440

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 <211> 507
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 aagaacattt gattgagtgt tgagtttggg tgcgnaacag tgggtccgag ggnccaaant 480
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<210> 240
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 240
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 cacctgggtg ccatagagcg tgcgggaaga gctgctgatg gcaattacta caatngcaag 300
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<210> 241

<211> 248
<212> DNA
<213> Homo sapiens

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gatgaaatcc attagaacaa taaaaatttc atcttgagaa atagccacaa tgaaagtaat 180
ttacacaata taaaacaatg acagntctac agatgcagtc gctcatgagt ttacacatgc 240
atacacaa 248

<210> 242
<211> 288
<212> DNA
<213> Homo sapiens

<400> 242
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aggaaccagt tgaacacagtc tcaattttta ctaaaaacttg aagaactaaa acaacaatgc 120
aaactctttta gcattgtttg gccaaaacttg ttaaaaactgt aatgcaagaa ccaaatgcac 180
tgtgatgtgg caccaactaa tttagcaagca tgahttttyc acccaagagt gaaaaaargga 240
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<210> 243
<211> 423
<212> DNA
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<210> 244
<211> 450
<212> DNA
<213> Homo sapiens

<400> 244
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<210> 245
<211> 2533
<212> DNA
<213> Homo sapiens

<400> 245
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 <211> 572
 <212> DNA
 <213> Homo sapiens

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 <211> 338
 <212> DNA
 <213> Homo sapiens

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 cagatgtaga gaagagaagg cgaattgctag agagccttgg agggccagca cttgatgtta 180
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nttaccagaa ggatgaggaa aagtgtcgg cntatgtc

<210> 319
<211> 451
<212> DNA
<213> Homo sapiens

<400> 319
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tggtttttatc aggcctaggta attttccaaa aagtgtcaag agaacaaaaa aaagggggaga 180
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gaatttgaga taactttgtg gaactagaaa taaggtagat gaagagtgt ccaattcttc 420
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<211> 359
<212> DNA
<213> Homo sapiens

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gaggccaaga aactggccca cgccatgatg gaggccttca ggaagacttt ccacagtatg 180
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<210> 321
<211> 295
<212> DNA
<213> Homo sapiens

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<210> 322
<211> 406
<212> DNA
<213> Homo sapiens

<400> 322
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ggctgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 323
<211> 489
<212> DNA
<213> Homo sapiens

<400> 323
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gtttttccgtga gtaagatttat aaaaaagtta accattcttcc caaaaagtata aagacaaaata 120
 aaatgtctgac tcataatata aattttttac atagcatttaa aggtgcagat attgactgcc 130
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 tgttgttagg gaacacatga gcaaaatcta tcattcgcac ttctacttca gcaatctctt 360
 ggcaaccagt gggaagatgg tagaaaaactt tntccagttg ggaaagtaca ttccatttta 420
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 aagtctgac 439

<210> 324
 <211> 491
 <212> DNA
 <213> Homo sapiens

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 tataaaacaa aatgatctca caataataaa aagaaagctg gttcatactt ctgaaacccat 420
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 caacactata t 491

<210> 325
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 tatttactcc ccacaagaga tgaaagaaat cctgtagtat atggagctct tactacaacc 180
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 aagtccgtat acccagttgc aggaggacca acgttcaaga gaatcaatgt ggattacaga 480
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 cttgga 546

<210> 326
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 326
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 cccatgcgta ttgatgagag cattcacctc cagctgcggg agaaatatgg ggacaagatg 180
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 cctctcctgc agcagctgaa ggtgttttct gatgaagtac agcagcaggc ccagcttttca 360
 accatccgca gcttccctgaa gctctacacc accatgcctg tggccaagct ggctggcttc 420
 ctggacctca cagagcagga gtccgggato cagctt 456

<210> 327
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 327
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<210> 328
 <211> 457
 <212> DNA
 <213> Homo sapiens

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<400> 328
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aagggtcttcg cacaagccaa cttatgaaaa cttacag 457

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<210> 329
 <211> 448
 <212> DNA
 <213> Homo sapiens

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<400> 329
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aaaatattgc ccttgataa taaatctttt tttcctttga tgcaaacagc tagaacacct 420
ttttcttttt ctttttgata ttctaaga 448

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<210> 330
 <211> 373
 <212> DNA
 <213> Homo sapiens

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<400> 330
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gggctatctg atg 373

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<210> 331
 <211> 306
 <212> DNA
 <213> Homo sapiens

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<400> 331
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tccgacggcg cgtccctgag ctccctcacc tctctcgcct ccgaccaaga ccaagattac 300
gattat 306

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<210> 332
<211> 626
<212> DNA
<213> Homo sapiens

<400> 332
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<210> 333
<211> 4898
<212> DNA
<213> Homo sapiens

<400> 333
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gatttttttgg	atgtgcctta	aattatacca	aagattacta	attattcctc	tttgcccaaaa	4680
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atgatgtccc	accacagtcc	ctcacctccg	gcctccacat	gacagaacca	attttacactc	4860
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acctcagtooc	actaacgtaa	attgcccact	tgagtgtctc	atgcccgtag	atgtgcaagc	180
gagaacaaaac	gattctcgag	agtaattctt	ccagccccac	ccgtacaagt	gtntnnctac	240
tgacagagac	ccacaccccc	gtgatgttag	cagacccctc	atcttttagt	ggtccttttca	300
caaggtcaat	ttttgctctg	gagccatgtt	ctcagcttca	gacaattttac	agctttctcca	360
cccttaagcc	gtggattgtt	ttgagacttc	tctcctcaat	ggtgacagtt	ggtcaccctgt	420
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<210> 335
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 <212> DNA
 <213> Homo sapiens

<400> 335

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gcctgtgctt gaacctgagg cactgcacac ccccacactc atgaccacac cctccctaac 180
tcctttcacc cccagcctgg tcttcaccta cccagcact cctgagcctt gtgcttcagc 240
tcctcgcaag agtagcagca gcagcggaag acccatcctc tgatccccctt ggctctccaa 300
ccctcctcgc ttgtgaggc gcctgagccc tactccctgc agatgccacc cttagccaat 360
gtctcctccc cttccccccac cgggtccagct ggcctggaca gtatcccaga a 411

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<210> 336
 <211> 255
 <212> DNA
 <213> Ratte

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agtgttttat ttctgcgcaa agtattcagg ttgtgtgtgg acatcaggag totgaattct 180
gttcttactg attttgttcc atgggtgaat tttaaaagtg ttttaacaatg aaggaacttt 240
attcttttagt caaaa 255

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<210> 337
 <211> 255
 <212> DNA
 <213> Ratte

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ccgactcgctt ggggattcag tgtggcaaaa tggggagagc gtggctcctg ctggctcttcg 120
cgcagtgtaa atgaaccatc cgtcttctca ggaatattat tcagtgtctg gccagtggtg 180
ctcatagggt tcacctctgt caacgggggtg tctgtttatat tcgttggctg ttgatcctct 240
gttaatttagt ggaat 255

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<210> 338
 <211> 232
 <212> DNA
 <213> Ratte

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<400> 338
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gccgtgacat catccagcgc atgcatcttc gccaatacga gctgctctaa gaaggggaacg 180
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<210> 339
 <211> 255
 <212> DNA
 <213> Ratte

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ttccgcctgt ggacagtga cttacttttc tacatagcac tccagagacc ccgagcatcc 180
ttgtccctc cacacctgag gcagtgtgcc aggacaagtt taatgtggaa gtttagagaca 240
gcccaggaaa cttgg 255

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<210> 340
 <211> 255
 <212> DNA
 <213> Ratte

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aaaacattaa tactgatgca aaaaaaaaaa gagtaaaaagt aaagaaaaaa aaaacaaaaa 120
ccaaaacaaa agaaggcaga ggaagctgtc taaaccgtcc tcggcctgtc ggaatggtgg 180

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taacaatgat atgaaatggg atctgtgggg aaggggggctt taaaagaaaa caaaatttgc 240
tgctttaaaa aaaaa 255

<210> 341
<211> 255
<212> DNA
<213> Ratte

<400> 341
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cacacagcag tataactaact gcagaaatgc caactagaag caatggcctc tggcagggtg 120
gccctatgaa atggcacaac aatatgaaat gtaaaaggac agtgaggaaa cttttacttc 180
aaaacaggaa gccacagtag aatgggttacc ttattctgac acattagaag caggaattgc 240
agcttcaagc actca 255

<210> 342
<211> 255
<212> DNA
<213> Ratte

<400> 342
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ttcgtgtcac tgaccagctg ggogaagatt tctttgctgt agaccttgaa gctttcctgc 180
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cctgtcacag tgaag 255

<210> 343
<211> 255
<212> DNA
<213> Ratte

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taggaaagag tgaagaagaa gcactcaaac agtttaagca gaagtttgat gaggcactca 180
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cttagcgtcc gctct 255

<210> 344
<211> 255
<212> DNA
<213> Ratte

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ctattgatca agtgattaaa gcagtaagaa aaatctgtag tgcttttagat ggggttgaga 180
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aaagtgcctg tctga 255

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<211> 250
<212> DNA
<213> Ratte

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gaatctgcat aaaatggagt atcccttact aacatctcaa aaaggaaaaa acctacagac 180
caccaatcac attctctgtcc atagtaacca tcacctctct gtgatttcag aacctcaggt 240
gatatgtagt 250

<210> 346
<211> 255
<212> DNA
<213> Ratte

<400> 346
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gggctgtaat aaataaaaaag tttattaata aggaatgcac tttccagcc acaagtgtat 180
tcaaaaataa ccaaaaaaaa aatatgtagt gccatagtcc acagttaagc agccaaacaa 240
aagctgctct gattg 255

<210> 347
<211> 255
<212> DNA
<213> Ratte

<400> 347
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actgaaattt ccaacacaga tgtggaaacc cagcctggga aaacagtgtat ccgactgocg 180
tcgggatccg gggcagcctc tccaaccacg ggctctgctg tggatatccg ggcagggtgoc 240
atttctgccc cagga 255

<210> 348
<211> 250
<212> DNA
<213> Ratte

<400> 348
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gtctgttgcc aagagaacac agtcttccag ccgagcaaac tgctccaggc ttctgagcct 180
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cccagagggg 255

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agcccttgta ggaaaccttc accacagagg gggcccactt gtcaaattca tatgcccagt 180
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gccaacaggg ctgg 255

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<211> 255
<212> DNA
<213> Ratte

<400> 350
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aatccattat catttaagac cagataaatt acatggctaa ccagctgtcc agtgctgagc 180
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gtggtcacgc ctctc 255

<210> 351
<211> 255
<212> DNA
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 caaatacaga cttttctttt aaaaccagga aaaggctaaa ctccgaagat aaagtatttt 180
 cgaacacagc agaaatagag agcagtgcac cacaagtaga ggatagcata tccgaggaac 240
 aagaagggac atcat 255

<210> 352
 <211> 109
 <212> DNA
 <213> Ratte

<400> 352
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 <211> 251
 <212> DNA
 <213> Ratte

<400> 353
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 aagaggtggc cgcagcttgg ggcattcaga agaacaggcc agctatgaac tatgacaaac 180
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<210> 354
 <211> 255
 <212> DNA
 <213> Ratte

<400> 354
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 aacataaacc atcactcttg ggggaaggga ggtggcaggg tgggtccacgg ctccacttgaa 120
 tgggggtggg ggagattaa aagtcaccac ccactgccta gctgagataa gattacatcc 180
 ctaacactgt gtataaatat ctcccttatat taaaaacaatt tttcagggtcc cacttcactc 240
 tacctcaagc tggga 255

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 aaaggaagtg caagaagtca ctgcctccta caatgggggc gatggatgct tgagctccac 120
 attggagcat cagggtggctt cccacaacca gtcttcaaat aaaaaacaaga aagtggagggt 180
 gattgacctt accattgaca gttcatcaga tgaagaggag gaagaacccc ctgccaagag 240
 gacctgtcct tctct 255

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 <212> DNA
 <213> Ratte

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 ctcttgaatg aaatctaaga agaaattagc tnanctctga ataaaaagat ggggtctggag 180
 gatactttac aacgactga 199

<210> 357

<211> 255
<212> DNA
<213> Ratte

<400> 357
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gagacacatt ctcaagtga tccctggcttc ttggaagcgc ttgcctagac gagacacagt 180
gcattaaaaac aacttttggg ggacaggtat gtttttcttg cagctgcagt tgtaaggtct 240
tggcaagacg agcag 255

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<212> DNA
<213> Ratte

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aaggtgcagc tgatttcacg gagcactttg aaacaccaga tctcaaagat gaacccatag 180
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caagcgcaaaa gccac 255

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ngaaaccccn tcactaattt tttcowwanat actaaaatat ccaacygmag aaatcatttc 180
ggcacatccc gacctccgat ctccctggtt ttaataactg tagaaaagca tctgtgtcca 240
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<210> 360
<211> 255
<212> DNA
<213> Ratte

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gggcttggtc gctaaaacat tctaccgaat gacgggtaca ttttcttcat ctactttgca 180
aacaacgaac acctgcgccc gcacccattt tccgctgtaa tttatgctgt gatgaactga 240
tgcttgactc cccac 255

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<211> 255
<212> DNA
<213> Ratte

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atgctagctt agttgttgaa agagtattca agagttccaa cagggagatc actgcaattg 120
aaagcagtgt gcctatccag ctgctggagt cagtgttaca ggaactgaag ggtttgcagg 180
aatcttctaga cagaaattct cagttttcag gaggaccact aggaaatcca aataccactg 240
ccaaagtga gcaga 255

<210> 362
<211> 255
<212> DNA
<213> Ratte

<400> 362
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 tcctagacca caaccatgt tgcaacaagg cagggcctgt tccgggtcct acctcccagc 180
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 <212> DNA
 <213> Ratte

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 acgtgaagga ggccgcctcc atcctgcagg agttacaggt ggaaacctat gggctctatgg 180
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 attacattcg cacac 255

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ttaatccocat gacaa 255

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<211> 255
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gcccagcaaaa cagtgggaatt tggaggagtg aggygagagc ctccggggag ttaagcacag 120
gacagcaggt gggaataagc caggatgagg ctccatnhnc aactcccca ggacaagaca 180
gccagcaaaa catgtgtcag gtgcagcagc actctcagtg ccggggcctc ttggctgggc 240
ttgggggata cctgg 255

<210> 369
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<212> DNA
<213> Ratte

<400> 369
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gagctcaaat tgaccgacta tcgtgggara kacttnnttw tgggcttcta cccactggat 180
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ctattattgc aggca 255

<210> 374
<211> 232
<212> DNA
<213> Ratte

<400> 374
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tcttacgacc catgctacag tttgggcttg ttgctttatc catatatgtg ggctgtctc 120
gagtttcttg attacaaaca ccaactggagc gacgtgttaa ntggcctcat tcaaggagct 180
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<210> 375
<211> 255
<212> DNA
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<400> 375
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ttggatagct cgttaattaag aacggagaaa gaacaacaaa gacatatatt ccagtttttt 180
tttctttact taaaaactttc aaaacaatag aaactttgtc tttctaattc tatactttaa 240
accgattaaa tcttt 255

<210> 376
<211> 255
<212> DNA
<213> Ratte

<400> 376
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tggctctaaag tggtagagaa aggagacacc ttaggtatca tgtaggtcaa ctttttttgt 180
gtgtggagga ggtgaacttc acggccacaa ataaacaggg tttgggcttt gtccagatgg 240
tagacttaat aaaat 255

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<211> 251
<212> DNA
<213> Ratte

<400> 377
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tgaacctgtc tgtgtctccat gcttttgtgg atctacatga gtccaccgac ctcaatctgg 120
ttcaggccct ccggcaattc ctgtggagct ttgcctccc tggagaggct cagaaaattg 180
accgaatgat ggaggccttt gccagagat attgcttatg taatcccggg gtcttccagt 240
ccacagacac c 251

<210> 378
<211> 255
<212> DNA
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<400> 378

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gaggcttgtc agtgatgtca aatcctccaa gaaaagatct gcttagataa ctaggactaa 120
cagtttcgtg gtaataatcc aattttataa tttgcttttg caaatctgcc tgaagctaca 180
gggaatggaa attaaagcaa gtgtaaaatg ggtagtctga catttaaaaa aattacataa 240
agaggagggt aaagt 255

<210> 379
<211> 250
<212> DNA
<213> Ratte

<400> 379
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tgaactcaca attcctgggtg tcaaatcccg gggactacga gatccctac tgggtcccat 120
ctgscctgtaa gcaagtctgt agtgtggaaa ccacacggga catcgagtgg gccacctata 180
cctgcacctt gggattccat gtctttggag tgtggcctga gggctcagat ggaacagaca 240
tcaatgctgt 250

<210> 380
<211> 221
<212> DNA
<213> Ratte

<400> 380
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tggtttgggga gaagctgaac ggcacggacc ccgaggacgt gatccgcaat gcctttgcct 120
gctttgatga agaagcctca gggttccatc acgaagacca cctgcgggag ctgctcacca 180
ccatggggcga ccgattcacg gatgaggagg tggacgagat g 221

<210> 381
<211> 255
<212> DNA
<213> Ratte

<400> 381
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agaaccacct caggcctggc ctctagtccc cgggtggagt gagtgatgtc atagtccctgg 120
tcctcttcgc caccaccttc ttctccataa tagaagacat tgtcacgagt gtcacctctt 180
gggagcagaa ggggtctctt gaccttcttc ttctttctca ccaacagaag gagcgccaga 240
agaagggtca gtaga 255

<210> 382
<211> 255
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<213> Ratte

<400> 382
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cttcattggga gcgtgtgcgc ctgggctgag agcgtgggga tgcacagatg ttctttctag 120
aacatattcg ttgcaacagc taactttgtg ttttcatggt tttttatgtt ttgttttgtt 180
tttttgaaaa tgagagaaga gctggagaga tgatttttat gatttttttt tgttttgttt 240
tttactatct atagc 255

<210> 383
<211> 255
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<400> 383
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ccatattccc tgctgagcgt atggtttagac cacagcagag aagtcctgga ataagacact 120
tgctcctcag aggacagttc tggagtgaag ggagtgtgta cccagtataa aaagaaggaa 180
gaaatgttga aaaagtatag aaacgccatg ttaaagagca tctgtgaggt tcttgatcta 240

gagaggtcag gtgtg

<210> 384
<211> 255
<212> DNA
<213> Ratte

<400> 384
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gctggagaca tgtggagttc tctaggggtc tgcagcaacc tcggaaagct gggagattcc 120
ttccttgaga ctcctacata tagaaaactg atgcttctgt ctcatccat gcggcctttc 180
ctgcgggtatt cctgtagcgc tttctctgcc actgtgtcca taaacttagg gttatccttg 240
gagacttctt ctggg 255

<210> 385
<211> 255
<212> DNA
<213> Ratte

<400> 385
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gatttactta tgcaggatgc tccagtgtga agaaataacc gcccaaatc tgcggctcct 120
gcgtggacgg ccggtgctgc acacctctgc agaccaggac cgtgaagatg cggttccggg 180
gcgaagatgg cgagatgttc tccaagaacg tcatgatgat tcagtcctgc aagtgttaact 240
acaactgccc gcatt 255

<210> 386
<211> 255
<212> DNA
<213> Ratte

<400> 386
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gagttcacca gacaagctga ggtgaccttc ttggggcacc caggcaagct gatcctgaag 180
cagcagttta gtggtattga tgaacatgga cacctgacca tcaacacgga gctagaaggc 240
cgagtgcac agatt 255

<210> 387
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<212> DNA
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<400> 387
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ctccagagca gaaggcttaa gggtgaaatg accactcaga aatggagggt ctgctaact 180
cactgggggtg tggattgacc ttggtagaga gacacttgtt ggcttgggct ggatggaaa 240
attactctct 255

<210> 388
<211> 255
<212> DNA
<213> Ratte

<400> 388
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gacaggctat ttgcatgaca atgacacacg gttctcactt cgggtgggggtg tttctccca 180
cagcagtttag gaaccagat ttaaaattaat gtgctattgt aatccttttt gtttttttac 240
agaagaaaaat gagat 255

<210> 389
<211> 255

<212> DNA
<213> Ratte

<400> 339
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cttggggcag gagggcagta tccgggttggc agaggagcag aggcaggctt gaatgaaacc 180
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agctggccct gctgg 255

<210> 390
<211> 255
<212> DNA
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<400> 390
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actgcctctc agcctccgct gtgcacaccg atcccaccag aggccaccgt cgccttctac 120
gcttctcttc ccagatccac aacaatggcc aatctgactt ccgccccaaag aatggccgcc 180
atgcattgat ttggcatgac tgccacaggc actaccacag catggaagta ttcacttact 240
atgacctcct gagcc 255

<210> 391
<211> 255
<212> DNA
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agcatcttca agcacaact ggacaagacc taccacaag gctatccga gtccctgatc 120
aagcagctgg gccacttctt cagatacgtt agccttgagg acatccggca gtggaatgtg 180
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caggtgattg ccttg 255

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<211> 255
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<400> 392
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aagctagcag ttaggtttcc atgcacttct gtgtcattac attgaaaatg gtttgtctta 120
agggttttagc actgggcaaa taaaactact agcaagaatg aagttatagt gtgaaaagct 180
ttaaacttcg taggtctagg gtaggtgaaa agagtcttca ccaaaaataa aggcagaaga 240
aaagtcatag tttga 255

<210> 393
<211> 250
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cttcacactc ttcagacttt ggttctccaa cttcaggtaa taagcaccct tgaagaaata 120
gctgtgacca ccacctgca ggtccacgac tgcattccagg ttatcagga tggcattcca 180
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ccagaacttg 255

<210> 394
<211> 255
<212> DNA
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<400> 394

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 gggggcagaa tcacactagc cgtgaaccca cttggatgat tgatgtttta ttcattgctgt 180
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 acaggggggt ctgtc 255

<210> 395
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 <212> DNA
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<400> 395
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 catgtattgg gcaagaaact gtaacagaat ggggaggaaa ataagtaacg cttcaaaaaag 180
 tgatcatctt taccagatca caagctagac tgaatttccc attagagtca gttctcaata 240
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 <211> 255
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<400> 396
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 ccgtccaca ccaaacaggc ggtgagcatg tttgtgcaag ccgtggaaga agcaaaagaaa 180
 gaaggaggca cgggtggtcta tgggggcaag gtcattggacc accctggcaa ttatgtggaa 240
 cccaccattg tgact 255

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 gcaaaaccta tgatccactg attaatgcca cccgagactt cccagatgat gttatcagtt 180
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 aaagctaaca gccat 255

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 ttcaaaagaca aaggaatatg cagaggcccc ttggcagtgg gtccctgccc ccacagcagg 180
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tgtgagcccc gcttccagtt gggacctaac aaccgctott gtgtggaagt gaacgagtgt 240
gacatgggag 250

<210> 401
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<212> DNA
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<400> 401
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tccattgttg atagatgagt gttacacctg cgtgtcggga ggggcagagg ggcaaggagg 120
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ggagacgagg agcattaaga gcaatgatga cgacagtaac aatagtgata atgaccatga 240
ggatgctgag gacca 255

<210> 402
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gatcctctgt ggaggctaca gtgtggtaga tgtcaccact tttataggct ctaaggcccc 120
tattccaggt acccaggaga ccaatagtcc caagaccccc tccctctttc cctgtgcctc 180
aggggccttc agcagcttcc gcgtgggtcat ccgccccttc tacctcacca actccactga 240
cacggagtag atgg 254

<210> 403
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<400> 403
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tacatgtgac ccagtgcaaa tgaagagttt aagagataaa gggaggggaa ggggaaaatt 120
taaaacatag tgggggaatg ggggagactg ttgtaacggg agncacctg tgaggtggct 180
gaagggtgaa gaaagcactt gaattttttc caaataaggg aggatggagg gaaacaacct 240
gtnttcaaaa atgtt 255

<210> 404
<211> 255
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<400> 404
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gtcctaaagc aatagcaggc aaaggaattc ccaaacagga atctggaact ggaaatctcc 180
atatcttttt ggaagtggga atgaagagcc atatatataa aaagatgcta tttctgaaca 240
atttcaattg tttcc 255

<210> 405

<211> 255
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<213> Ratte

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gccagagaat gacgttcacg tccccgtgga caccctgcag agagtacatg gagccgctgc 120
ccccgggtgg gatggaaaagc aaggtcttct tattctggaa aggacccttg tcatacatgg 180
tggcatacgt gtaggcgaat cctgctacaa gcactctctc aaaccagcct ttcagaatgg 240
cgggcacccc aaacc 255

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<211> 255
<212> DNA
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<400> 406
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gagaggatct aaaactatct tctctgtataa atattatttg ccaaaagtgt gtttatattc 120
agaagtctga ctatgatgga taaatcttaa atgctttgtt taattacaaa aacaaaatca 180
ccaatatcca agacaggaag atatcagttc aacagcttac tgaagttagg aaactaactc 240
cactcgtatg ggaac 255

<210> 407
<211> 255
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attttttaaat ataaatgtta tgattgagga ccacatgcac agaaaaatgg tgcaaaaacc 120
gagacagtat catcagcttt atcaactgta accatgggtt ggttcttccg ggccagtccc 180
agtctgttaa gaggcataag aatttggaat tgttacctca cagaggcacg ggtctttttg 240
cagttgccaa cctgc 255

<210> 408
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<213> Ratte

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tcttcccttt gcatactccc tttggagaac agcaagggtg gcttcccttag cataccaccc 180
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agaccacaaa agtgt 255

<210> 409
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<213> Ratte

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atthttgtgga agctttcttg acaaatataa aaataaaata agagagactc agatgttcat 180
aacacataga cgatttccct tcattgtaag ttcactgtgg acttttcttc catctaaata 240
tttcgtgtgc caagt 255

<210> 410
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 cgatattgat attgaagcaa tgccttgaggc cctttacaag aaggtgagaa aacatgctag 180
 ngagctgcaa tatatttctt aatttagcat tattcacgaa actactgctg aaatgtaaa 240
 taaccttccc ggagc 255

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 <213> Ratte

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 aaaccaattt tagtcagagg cgtgtttgtg cccaattagg tatcatgtat gtagtgtgaa 180
 ggatgtagaa ctcaaatcac acagggctct gccagagag accgagttca acagtgg 237

<210> 412
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 <213> Ratte

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 gatcaagtta agcagcagct gattaatgaa accagtcgaa tcagagcaga caataggctg 240
 gacatcaacc tggag 255

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 <212> DNA
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<210> 415
 <211> 250
 <212> DNA
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<210> 416
 <211> 255
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 caggcacacc tttgt 255

<210> 417
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 <212> DNA
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<210> 418
 <211> 250
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<210> 419
 <211> 255
 <212> DNA
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 <212> DNA
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<400> 420
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 gctattttgc tcttc 255

<210> 421

<211> 255
<212> DNA
<213> Ratte

<400> 421
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acagcgagct aatttaaggc aaaaacctcc gtcccttaga gctattatag atggaattat 180
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ggattttttt caggc 255

<210> 422
<211> 255
<212> DNA
<213> Ratte

<400> 422
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ttcagattta tgccttattt tttagcattt tttaaatgtt gggctcttca agctgttttt 180
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caattaatct ttttc 255

<210> 423
<211> 255
<212> DNA
<213> Ratte

<400> 423
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aaccaagcag acacagtatc caaactcaaa gtgcaaaatc actgaaccaa agngatgat 180
gttgaagaat tacagngggt agaaacaaat tccaactccg ttaggcangc ggagaagatg 240
tgctcacaga ctcat 255

<210> 424
<211> 255
<212> DNA
<213> Ratte

<400> 424
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ggtggtagac cggagagcct tgaacttgca tacgaagatt gttgaagatg ccgtgaagca 180
aggagttctc aagacaccaa tccccatatt aacttaccga ggaggatccg tggaagatgc 240
tcgggcattt ctgtg 255

<210> 425
<211> 255
<212> DNA
<213> Ratte

<400> 425
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ccccaaaacat taagatttta aaagactaaa agtagtgagg gaaaaaaaaa caataaaaat 120
tgcaagcaga gacttaacta agagttttac aattaaaaaa aataccaaat ttaaagtatg 180
tcagttttat agaacttgta atttgactg caaaaggaat gcttaaggaa ttcacttcct 240
tcgctcagta ttttc 255

<210> 426
<211> 255
<212> DNA
<213> Ratte

<400> 425
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 ctgtcatcta tgaccttaaa ctggcagcaa gaaaactagc agaggtgtgc aactgtctgg 180
 tagtggagta atggctttct ttctatgtcc ttgagcttga totatgcaga agagagtaga 240
 ccattaagggt aagag 255

<210> 427
 <211> 255
 <212> DNA
 <213> Ratte

<400> 427
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 atcatggcca tccatagat gaccttcaaa gtgcctatct gaaagaaaag gatacacctc 180
 agaagttgtt taaacagtta accgacacac actggacaga tatcactcgc cttattgaaa 240
 agcttgaaga acaga 255

<210> 428
 <211> 255
 <212> DNA
 <213> Ratte

<400> 428
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 ccaggtatag gactaaagtg agtattaggt tgaatattga tgtagactct ttgtgtgtcc 180
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 gtgaatttcc ttga 255

<210> 429
 <211> 250
 <212> DNA
 <213> Ratte

<400> 429
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 agtgcacctt cccacagaaa gagacacaca cacacacaca cacacacaca 180
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 agaaaataga 250

<210> 430
 <211> 249
 <212> DNA
 <213> Ratte

<400> 430
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 aagtttttaa gttgttttta tnttaaaaag ccacagtaa taatctggaa ttttttactt 120
 ttaaagctgc ttagcctcaa ttttaacaga ttctgaaatg tottaattga tgtaattagt 180
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 taggaagag 249

<210> 431
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 <212> DNA
 <213> Ratte

<400> 431
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 cgattatctg aatcatttgg tcttaaaaaa tgttgcttta aaaatcaagt ccagcctaact 180

tggaggtaaa ttttaacata tccagcactg gaatatctta tctctgcttt ggctgtaggt 240
tatactttttg tggct 255

<210> 432
<211> 255
<212> DNA
<213> Ratte

<400> 432
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taggcagcca gaagcagcca gaaataattg atctgtcttc tggtaatgcc aggtttttcca 120
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tggtaggcga cagga 255

<210> 433
<211> 255
<212> DNA
<213> Ratte

<400> 433
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gcaaaccata tgttgttagc ctctgtgtta ctgcttaact gcaaacctgt tgagtataca 180
accttataaa caatagctag acagtcatag gcctttaaaa caaatgatct aataacagca 240
aaggagagat aaatt 255

<210> 434
<211> 255
<212> DNA
<213> Ratte

<400> 434
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gactacacag agaagccagg gcatgtgctg cactaacata gcccactagt cccactgcgg 180
ccacactgct gtgctgctgt aggtagtcca ggttactgat tcaactgagta aacacacacc 240
tagaaactat agcaa 255

<210> 435
<211> 255
<212> DNA
<213> Ratte

<400> 435
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agtctagaag gaaaaacaaa gccaccgtca agaccctgtg gagttgaaga ggacacggaa 180
acgtctcaat gaggtaatcc ttccactgtc tctaaaaagtc cgacagaaac tgagttagct 240
cacgaggaca gattt 255

<210> 436
<211> 255
<212> DNA
<213> Ratte

<400> 436
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cgaactcggg aaacaacttc aacccctgag atttccttg aagcagaacc catagaactt 120
gtggaaaacc ttggagatga aatcgtggac ctcacctgtg aatctttaga gcctgtgggt 180
gtggacctga ctcacaatga ctctgttctg attgttgaag aaaggagaag gccaaaggaga 240
aatgggagga ggtaa 255

<210> 437

<211> 255
<212> DNA
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<400> 437
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tcnatgaatg tgacctgaat cccaacatct gcttcagtgg gacctgcgaa aacactanag 120
gtcccttcat ctgccactgt gatatgggct actontggaa aaaaggaana acgggctgca 180
caaatatcaa tgaatgtgan attggagcac acaactgtgg caaacatgct gtgtgcacaa 240
atacagcagg gaact 255

<210> 438
<211> 255
<212> DNA
<213> Ratte

<400> 438
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gatttgggag gaaagggtgt gctataaaact ttgttactga agaagacaag aggattcttc 120
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taatttaatt cctgggatga gatagtttgg aatgcagtgc tcgctgttgc tgaataggcg 240
atcacacgt gcatt 255

<210> 439
<211> 255
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<400> 439
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aggcttattt agccaaaaga gtctccttgt tttgggtttt agtgttgaaa atgaatgtaa 240
tactgtaaac atcat 255

<210> 440
<211> 255
<212> DNA
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<400> 440
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ccgatctata ctgccggctc caatctgcag aattcaggac accttgccaa aagcaatgaa 120
ggcttggtgt gactcttgtt agagtgtgta acgggtgggg tctttacagt tccagtggac 180
tagggaaaag gatgttgaac gaattaggtt tgcaaagggg ccggaacttt tgtttgtctg 240
tttgttctgt tttgt 255

<210> 441
<211> 255
<212> DNA
<213> Ratte

<400> 441
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gtttgtctatt ttccaggag ggttttttta agtacaaatt tctataaaaag tgtttccatt 120
atattagcac nccctaccog ataaatcaca tgatttttgt ttcaaatctt aaccttaaaa 180
ctaccttcaa ccgtgtttat cctatcaaaa tattatactc taaagacatt tgaaacctaa 240
aactgctcat tgta 255

<210> 442
<211> 255
<212> DNA
<213> Ratte

<400> 442
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 acatgaaaca gtttaacagt ttatgggggtg gtcacagtgc acatattact agcaactagg 120
 gctaagaagg aatcatttag tgtaaaagt ttattggaat ttggccaggc agtcatgtct 180
 atagttagta aacncatttg gagacaaata tcagagtagc tcaagccatt tgcaatctga 240
 aatgattccc atatg 255

<210> 443
 <211> 255
 <212> DNA
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<400> 443
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 cgaagtggat gcccttaaaag gcaactaata gtccctggag cgcagatgc gtgaaatgga 180
 agagaatttt gcccttgaag ctgctaacta ccaagacact attggccgcc tgcaggatga 240
 gatccagaac atgaa 255

<210> 444
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 <213> Ratte

<400> 444
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 tataacatag ttgttgactc tgtaataaat ggacatgcta ggatctggat cactttcaat 180
 tgaagtcagg gtattgtgca tagtgagtaa aaagtgttgg gactgaaaaat tgattaccac 240
 agaaggccaa tgcct 255

<210> 445
 <211> 255
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 <213> Ratte

<400> 445
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 atgtaggcca cactggccta gaactaaaaa atctgcctgt ctctgtgtcc cagttgctag 240
 gattaggtat ccgct 255

<210> 446
 <211> 255
 <212> DNA
 <213> Ratte

<400> 446
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 gaggccctgt ctcaaatcaa aacaaaagtg ggggttgagg gaggagtggg gaatatgtgt 120
 cttagagtaa ttccatctct agaaacagtc agtctcaggt cagtctgtgt gggtagggag 180
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 gaaagccagt taatt 255

<210> 447
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<400> 447
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ttcatagtga ggggtataatt acaattcacc cttctctgtgta ggttcccttt ctgtttccctg 240
ttcttcttctt tcttc 255

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<211> 255
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<400> 448
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aagagctgct agtga 255

<210> 449
<211> 255
<212> DNA
<213> Ratte

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aaccacaaaaa aaaataaaaa ataaaaataaa ataaaaaaat gtgttttccg atgttcaaat 120
ttctcttcta agcgaggtga agaaaaaaa gagcaaatat attaagtcaa ccaattttta 180
aaagtgcatt ttacctttat aacaatgaaa attaacaaca aaccacaaat accgacctt 240
aaccacaaag acaaa 255

<210> 450
<211> 255
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<213> Ratte

<400> 450
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gctggccgaa ggttgctttg aaaatcaagt gtttcatgcc aatgcctttg gatttccctc 120
cacggagccc tctagacca caagggcata ctatggaaat attaatTTTT ttggagggcc 180
ttctaattgcg tcagtgaagg cttctgcaaa actgagacag ctgggaagagg agaacaagga 240
cgccatgttt gtgat 255

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<211> 255
<212> DNA
<213> Ratte

<400> 451
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ctggaaatag gcagaagggg tgggggtgggt gagccttggg gggctcaggc ttcccttgca 240
ggaaaggcaa atgca 255

<210> 452
<211> 255
<212> DNA
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<400> 452
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tatcagtcca gggaaaaata gaaatctccc taaaaggcag ggacctgaag gaatgggtggg 120
caaaggtata ttggaatcgc tcatttgttt gtgaattttt ttattgaacc cacctactca 180
aagctagggc accccggacc tttggcccat ccacaccgtt ctccatctgg gggactaac 240
ctgtttcaaa accag 255

<210> 453

<211> 255
<212> DNA
<213> Ratte

<400> 453
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tttttttttt tttttttttt aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaaacg 120
gtttattgta ttatgggtaa aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaaacg 180
ctgtaagcta cacaaaaaac attctggta gcttttttaa agccaggcac aagaaattca 240
caccattaac aatgaacgct cagagggcct ttcgaaaaat tcacacggca aacaacaagt 255
taaaaaatta tcccc

<210> 454
<211> 255
<212> DNA
<213> Ratte

<400> 454
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ggagagaaac ttgaagcaat cccactaaaa tcagggacta gacaaggctg cccactctct 180
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gtcaagggga tacag 255

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<211> 168
<212> DNA
<213> Ratte

<400> 455
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ttttttttt ttacacaaag acagaacttt attaatggaa ggcttcttgg tgaggagtgt 120
gtgggccccca gggcagggct tgtagcacc atgatggggg atggcctg 168

<210> 456
<211> 255
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<213> Ratte

<400> 456
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gtcacgaact aacta 255

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<211> 255
<212> DNA
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caccagaaaa tatcaccttc gaagacccat ccttagatgt aatactactt ttaagagttt 240
tacatgccat cagtc 255

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<211> 250
<212> DNA
<213> Ratte

<400> 458
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cccagacctc tgtgaaggcc acgggctctc agtgctcccc gttactgatg acagccgact 240
caggttcgcc 250

<210> 459
<211> 255
<212> DNA
<213> Ratte

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cgctggcccc tagataaaga tgattgagca acagggcttg agtagtagct aggtggaaaa 240
aagagaggac aaaag 255

<210> 460
<211> 162
<212> DNA
<213> Ratte

<400> 460
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aatttcatct tgagaaaaa gccacaacaa aagtaattta taccatataa aacaatgaca 120
ggtctacagg tgcagttact catgagtta cacatgcatt ca 162

<210> 461
<211> 255
<212> DNA
<213> Ratte

<400> 461
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tataagaagg taatt 255

<210> 462
<211> 255
<212> DNA
<213> Ratte

<400> 462
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gtcaggggtt agtgaacatg tggtaaaatg aggacttatg caagggttaa tacgcatagc 240
attcttctac tttgt 255

<210> 463
<211> 236
<212> DNA
<213> Ratte

<400> 463
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tggaaaataa aatattttaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcttg 236

<210> 464

<211> 177
<212> DNA
<213> Ratte

<400> 464
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<210> 465
<211> 255
<212> DNA
<213> Ratte

<400> 465
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gttcattctt ctgccccaac cctactatga aacaagataa cccctctgtt ttctaaatgt 240
atcaagggat accac 255

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<211> 255
<212> DNA
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<400> 465
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<210> 467
<211> 250
<212> DNA
<213> Ratte

<400> 467
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cttaatgcac cagac 255

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<210> 513
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 <213> Ratte

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tgccctcaca gatgacacct cacaacaaca cctcagattc ccgtgttcca aaggcagcaa 120
caatctttgtc atttctgtta actttcacaa aggcaccccc aaataccac aacagaagtt 180
accccggttt tgtctacagt gactgcctgt gggccacgcc atctaaactg agaggggggaa 240
agattctatg ttcaa                                     255

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<210> 514
 <211> 255
 <212> DNA
 <213> Ratte

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ttaaaaatac tattaaacct aaaaacgaac ccccaaaccc taaaactatt aagcacccaa 120
tacatccact aacaatcaat ccaaaccac cataaatagg tgaaggcttc aacgccaacc 180
ctagacaacc agtcaaaaac agtaaaacta aaataaacat ataattttgtc attattttcta 240
cacagcattt aactg                                     255

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<210> 515
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 515
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ccttcgcgct gcaacagatt gccgctgcgc tcgaaaataa gggttacagac ctctgaccat 120
cagtgtctgc tcaggattca gtagaggatg caccacaggc ttctggagag cgtgtggtga 180
acccacctct tgtagactat agcgtctttc tcctgagcaa tactgcccgg gcgcccagat 240
cagcaccagc tccgt                                     255

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<210> 516
 <211> 250
 <212> DNA
 <213> Ratte

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<400> 516
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agaagggaaga agaaactaaa atgagcaatg gagacggatc cgagagcact gtgtctgcgg 180
atcctgtcgt gaagtgatgg gatgcggtcg tcagacatgt cgtgctttcc agagactgac 240
atggatgcta                                     250

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<210> 517
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 517
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gctctgtatc ataactctca cttctgccct ctgtgtattc taggttgggg cttgtcccgc 120
acctaaggca agaggatggg ggctgcaaaag aaaacgaaaa agtctctgga gtcaatcaac 180
ttctcggctcc aacttggtat gaaaagtggg aagtactatg tcattctattc attttttaaa 240

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acattcatta agatt

<210> 518
<211> 255
<212> DNA
<213> Ratte

<400> 518
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aagtgtgac tattttgact agaaatggaa atgagtccga ctcatattgta aaaataatgt 120
aggcgggtgct ttagctagtc ctgtaagaac aaccaatcaa ggttgaagaa aagagcataa 180
cacattagaa atacccaaat tatgcttctc tgaaattaaa aaaaaatgga ttaaagaact 240
gagrtattgct ttaat 255

<210> 519
<211> 250
<212> DNA
<213> Ratte

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tccattgggg tcacacacag aactcagaga tccctgaggg tcacattcac aagcgaggcc 120
tgcttgggtg atcaaggcag aaatgctgaa gatgatgttt ctgcagacat ctgtcatagg 180
tgttttcacc acactccggc tgttctccag acacctgtag cgctggaagg tttcccaggc 240
actgttgggtg 250

<210> 520
<211> 251
<212> DNA
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ccaaagataa tatattcact ctaaaacttg ccatctaagc caattcttct cagtgcctt 180
gaccttctaa ctcatcttgc caccatatac ttcagagtga tcaaccacca taaagggtggc 240
cctagattgg g 251

<210> 521
<211> 250
<212> DNA
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<400> 521
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ttcatcatgt aaataattta cctctccctg accttctatg ctttaccatt gcatgataat 120
atcattttcag gttatttaag agttaaatcc ctcaatgccca gtaattataa gtatacactg 180
aacatggcgt tcagcatatg ctacaaaatg gcaactgtgtc ctttgctaaa aggcttcaag 240
aataatacac 250

<210> 522
<211> 255
<212> DNA
<213> Ratte

<400> 522
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gcaaatcaag cttgcatgag tccacatata gcaccacaac catactctct tacacagtca 120
ctccaggact aggagtctgc ttcattgcgtg aagagcccta gatttgaaaag atgaacctgg 180
ctctttctct accacggggag ccagacattc attcaacact gttcattcct acactgcttc 240
acagcgaggc ctggg 255

<210> 523

<211> 251
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taaatatttt ttataacagt attatacaaa tttttacaaa atgggttcat ccgactagtt 180
aatttccaca aaagtgtcca gagaacataa taagggggag aaaaaaaatc tgttgttcac 240
aaaagccact t 251

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tatgtggatt ncaanttgct gtgcataatt ttgtccaatt ttactgaggg gagggcatat 180
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tarcattata 250

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<211> 250
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<400> 525
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gctgaggagt gggtaagaga ggagacaagg cagagtcttg tgacctcttt tacagagcat 180
cctctcagga aatgctgagt ataaatgaac tacaactcct gatcttacag gtgtttttga 240
actacttttc 250

<210> 526
<211> 250
<212> DNA
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gcagtcaccc tcattctaaa tttttgaaca tgtaaaggaa aatacactcc cccacacctt 120
ttgatacttt tcttactcta gtgggttttt ttttaatttt ttaatttttt ttcaattgcc 180
agcaagggtga taaaactagc caaattgtct tctttttcaa agcanaatca tatacgtgtg 240
tgcctgctgc 250

<210> 527
<211> 255
<212> DNA
<213> Ratte

<400> 527
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ccagaacggg gcggtctgcc agtgggttgt gtcgtgggtg aaacaagtga agctaggcag 120
gctgcactct tctccttttc tctgacgttt cttctccttc ctctccttct tctccgacg 180
atgctccttg aacagctgca gtttgctgtc cacctcctgg gccgcagcct ccttgaaggg 240
gtgaaagtgg ctctt 255

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gttttgttgt aacagtgtt atcataccac atgtcagcag ctcttagcat tactgagggc 180
aaggagggaa ggactaacag cacaccagct tggtaagatc ataaatatag aagcttaaat 240
tattactgtt gccag 255

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aaaagtgtcc acgcacaccc gttatgtgac aacctcctat aatctgcctt tagtcccaca 180
ctcaaacttt agcatcagtc ttttatgacg acaatctacc gtggcccccata aaacattgcc 240
ttaaggcttag 255

<210> 530
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atagttcaga tcgtatatct gtctttgttt gtttttcaaa atcattaaat ctaaaatagct 180
cacttctgag caaaaccctg ctctgtggac aattatcact gccagaatcc tccattttctg 240
tagtgtctctg tgtga 255

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tggaatacct caaactgaga gaatgcagaa gagggctgaa cgtttcaatg tgctgttaag 180
cttggagagt aagaaggctg ctccgggcagc gaggtttgga atttcttcag ttccaacaaa 240
aggtttatca tctga 255

<210> 532
<211> 250
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<213> Ratte

<400> 532
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actggagctg gcaggccagc tcttgtctct tctttttgaa gatttgttta aaaagtttaa 180
ttcagaaatg aagaagattg cagaccaagt gatttctaaa caaagagcag cccagtttga 240
cgtcgtgaaa 255

<210> 533
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aaaactcatc aaaactcgca aactgatcag aaaaggcttt tggaagacta gaaaaaatat 180

tttattgtct taatcatgca ttacacaaag aaaatcttca gttacaccat aaaagtaagc 240
acattctaaaa aaata 255

<210> 534
<211> 250
<212> DNA
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aagcggtcac ccagggacag caagatgtcg gtgatcaaac caggcatttc tggcaacatc 180
cagcccttca ctttcttgga gggcacctcg atcaccttct ccactgacca ggtgctctcc 240
tcattcttgc 250

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<211> 255
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ttgtatctga agcaggggta acagctctgc tgtggggcctg ttccctctta gtattttacct 180
caaggcttgg aaatgtattt tgaaagacct tcagtcaaac gaagtaaagc aaatgtcaag 240
aaggataaac cactg 255

<210> 536
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gcgtggcctt gcctgactgc ctttgccttg gtgacatcac ttaggccagag tcccactgc 180
tggttttgc cacttctctt tagacaatat tccagtaagc ttgatctcat aattatgtag 240
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atgataatcg ttaattatct atgatatatg tttcttttcc cgtctgact tccactcag 180
tcattataaa cacagacttg aaatcatact ttaaaattcc aaatgcctaa agatgtgcta 240
aactggagggt aactc 255

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gaagtaaatg ggaactgcct gaatgttctt tcataaacct aggaaataaa gccaggctca 180
tcagtggaaa cttggagaat ttaccacac aacctgagct gtttaagaaaa cattggactt 240
tcatttcagt cgcac 255

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gacaattcag taagatcacc aagaaaatca cctcgtttaa tggcacaaga acaagtaaga 180
agtttgcgac aaagcactat tgccaagcgt tcaaatgcag cacccttaag cacaaaaaag 240
ccatctggga agact 255

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<400> 540
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aactaaaata acaatgcaaa gcttttagcat tgttttggcc aaacttgta aaactgtaat 120
gcaagaacca aatgcactgt gatgtggcac caactaatta gcaagcatga ctttttcacc 180
tgagagtga aaaaggaaac tctaccatgg cttgaagtta aagagcagaa ctcttgacta 240
ccattctgat caaga 255

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gtaagctaata gctggagcgc aactcccaag atagagcacg ctgtctcata aataatgaag 240
tctttttctc aggca 255

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tccgagatca tcagctgccc ttcaagcatt taattggcca agttatggtt gacaaaaacc 180
caggaatcac ctcagcagta aataaaaacca gcaacattga caatacttat cgaaatttcc 240
aaatggaagt gctgt 255

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aagt-gagag 250

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 cttcagatga gctgctccgg tggatccgcc catcactctt catactgtgg aaagtcttct 180
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 aaaacaaatt acctctagaa tttttcctta gtatttttag atcacagtgg attgtgggca 180
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 caaatgctgg gggttaaagga gtgtgctag 149

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atgctttttaa ggcaa 255

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gcctgagggc cttgcctata gagtctgttg tcatcctgtt ggccaacagg tattcctttt 180
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aagtgcgaag agtcc 255

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gaacacggag 250

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gatccttgca ctgag 255

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 tgatgcagac aaaaacttta aaaaaaatgc tacacatcat cttcagaaat agtagaagta 180
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 ggaagttat gaagg 255

<210> 558
 <211> 255
 <212> DNA
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 agagatctga gtcattgcctt cagatctcaa accaaggcca gggaggaata gatctaaaag 120
 coactgcttac cgtggagcac attctaagat aatatctgtt gatactggta acagaggcca 180
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 tgcaataagc cagtg 255

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<400> 559
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 cttgtgaacc ctctcttccc catccttcag tggccatacc ttctctgggg aattttcatc 180
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 tgagtgaattt ctctt 255

<210> 560
 <211> 251
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<400> 560
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 agcatagaat actgttagct atttccctaa acattttagt ttctcaaagt gaaatgctgt 180

ccacttgagc agattgaggt ttatgcacga gaattctctg aagtcctatg tgattcagaa 240
tgctctgtg c 251

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<212> DNA
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<400> 561
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ttagctcagt ggtagagcgc ttgcctagca agcacgaggc cctgggttcg gtccccagct 180
ccgaaaaata gaaaagaaaa aaaaattgtg ttactcaact ttaaatgtta aacagtaatt 240
ttgacgaata attgt 255

<210> 562
<211> 255
<212> DNA
<213> Ratte

<400> 562
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acatcagcaa gacaccggat tgatatttta acttttttaa actattaaaa ccaatttaac 180
acaaggcctt tttgccccct ttgcaagact acctggaagg aatacatgtc tccttgccctg 240
tcaatgacac agatg 255

<210> 563
<211> 251
<212> DNA
<213> Ratte

<400> 563
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gatcaatata atcagtatc accgtgatct caccacttgg tttcattttt atgtagagct 180
ggccaccggt gcgtaaggac gtgaaacaga cgtgaaacgg ggcgttctga atgttactgt 240
cttctggcaa c 251

<210> 564
<211> 255
<212> DNA
<213> Ratte

<400> 564
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gtgggactaa aggcgtaagg cgaccgggtc tcctgcttct gctgcgttca cctaaaaacac 120
cgcggtattg ctcagccac actgaagtat ttgtttgcct tcattttaaag aacatcccac 180
ttcacagctc tctacagatg ggcagctccc agggcgcttc cgtttgtctt cagctctgac 240
aggagcagat tccac 255

<210> 565
<211> 255
<212> DNA
<213> Ratte

<400> 565
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ttaacataga ggggatattt ttgaagatgt aattgttttt tgttttggtt tgttttggtt 240
tacttaattct tgtag 255

<210> 566
<211> 255
<212> DNA
<213> Ratte

<400> 566
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tgcccagggc caccggccttg gcagagcctt ccttgtggaa gcaataacta gtttctgtga 180
gagaacctga gccgggagag ccggggcacgt agccagactg ggtcacagcc tgcctctcta 240
tccctgtgtc ccttc 255

<210> 567
<211> 251
<212> DNA
<213> Ratte

<400> 567
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gtgaatgaag ttacctcggg acaacagcat ttaaaagtaa ggtttgtgca agccaccttc 180
atattctttc tggttgctgt tgctttgctt tttagagaggt cactggactt actatgttgc 240
tgagaatgac c 251

<210> 568
<211> 255
<212> DNA
<213> Ratte

<400> 568
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atctcttagt gttcttttca cagtgaacat aatcctaagt ccttggaat ttttagaagt 120
cttttaactt tacacaaata atgaaataat ttttttttta aattcaaaagt gtctcaccct 180
acttgttaat ttgcccccaa ggaaagtgtt ttttaaaaga aaaaaaaaag gatacttgta 240
gagtgagtga aatgg 255

<210> 569
<211> 255
<212> DNA
<213> Ratte

<400> 569
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cggnaaacct ttnggaaanc ccnnttctca cnatacggcg agnngaggcc ctctagcatg 180
catgctcgag cggccgcccag tgtgatggat atctgcagaa ttcggcttcc naggcgccgc 240
ccgggcagggt accct 255

<210> 570
<211> 255
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<213> Ratte

<400> 570
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ttttgaagggt tggaaaagggc aaacwchhhn wattggctgc tgaccaatgt ckctcgctgg 240
ctgggtgctca agacm 255

<210> 571
<211> 255
<212> DNA
<213> Ratte

<400> 571
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 ttttaaggcta agctggtaag agttccgaga caggtgggtg gtttagagtga tttcctagac 180
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 ttttagaggag ctgcc 255

<210> 572
 <211> 254
 <212> DNA
 <213> Ratte

<400> 572
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 canagncccn ancaangncc taagtctttty aatggcanca cnattataaa ggntacaaat 120
 gacttaacag gaacaanaaa aaahhgtgtt attnnnggcc cnnnnnnnnn cttgagtttc 180
 taaactgtca gtaagcagt aaaggtgtcg gattaactac ttggtaatgg ccaggaaaaat 240
 acgatgaaga tggg 254

<210> 573
 <211> 241
 <212> DNA
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<400> 573
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 tccttggtgtc catgaggtgc ctggggggcca gccccacacc tgggggaagt cagcggcacc 120
 tgcagactca tgggaatagac aagaacggag aactggattt ctccaccttc ctgaccatta 180
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<400> 574
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 agctggaaac caacatttcc taaagactaa aatttggttc aaataaataa atgagcaaaag 180
 tcaggtaata acctttttcaa aggtggagtt tggtagtctt gagtgatact acctattcct 240
 gagtctctctg gatac 255

<210> 575
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 <212> DNA
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<400> 575
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 gggctcatgt atatgcagaa agccttccca tcatgtgtca ttgtgacctg tggcaagcca 180
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 tagtctaaaa tctaa 255

<210> 576
 <211> 255
 <212> DNA
 <213> Ratte

<400> 576
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 acatgaagct caagaagaag aaagacaaaa gtgtgaattt ttcagttctt cttagaaggg 120
 ggaacaaaaat actcacagga ggaaaaaatgg agataatgtg tgaaacagag actgaaggaa 180

aggccatcca gagattgccca cacatgggga tacatcccaa atgtagtcac ctaacccagt 240
cactattggg gaggc 255

<210> 577
<211> 255
<212> DNA
<213> Ratte

<400> 577
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attagcaaaag atttatgaaa cacattccaa atcaaatgtt gctatggaaa caacagactt 120
aagtagagaa gcacaaagtc ctgaagcacc cgcaattatt ttaatcagga aaaatgatat 180
atttatatat gcatatgcac atatataatt tgagaagaaa taaaggcaaa attctaactt 240
taatcagagt ttgta 255

<210> 578
<211> 255
<212> DNA
<213> Ratte

<400> 578
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ctggagagtt cctcaagatg gagactttga ttttttaaaa aatctaagtt tagaagaact 180
acagatgcgg ctaaaagcac tggaccccat gatggaacga gaaatagaag aactgcatca 240
aagatacagt gcgaa 255

<210> 579
<211> 255
<212> DNA
<213> Ratte

<400> 579
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gatattgttt taaaactatg ccattataaa atagtatatc tctagggctg agtaggtagc 180
atttatgcag aaaggctaca gtcccaaagc agctaccata aatatttttg aagctattcc 240
ttttcacctt aagat 255

<210> 580
<211> 255
<212> DNA
<213> Ratte

<400> 580
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cttggcacc cagggaatagg atgggtttct caattagaaa agacatatat atccacacac 120
ccatatatat aacttttttg tttttaacat ttaaatataa aaatactact ctgctttgag 180
ttataaatgg aggaccaaga aacttttttc ttccctttaca gtagggccat ttgtcagggtg 240
aactgtgttt catga 255

<210> 581
<211> 255
<212> DNA
<213> Ratte

<400> 581
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aagttcttct gtattgcata gtagtccaga ttctctgtgg aaaccataag gctattttgt 120
ctactttgca tgaatacttc agacttgat ttcagagcca agcagtaact aaaatgtgga 180
ccttgctttt cagagataag agttcttaat tatatgcctt taagtgtttc cttctaggct 240
tcccaccaag tgttt 255

<210> 582
<211> 255
<212> DNA
<213> Ratte

<400> 582
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cttactagtt cttagccttca aaggaggttag accttgggtt tcatcctata aatttctgggt 120
gggtggtgata actcataaat gtatgtttgt atggtattta tcaactaaat agcagtagaa 180
atagagatcc aattccttta gtacctgccc gggcggccgc tcgaaagccg aattccagca 240
cactggcggc cgtta 255

<210> 583
<211> 255
<212> DNA
<213> Ratte

<400> 583
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atatctgcag aattcggctt agcgtggtcg cggcggagggt actaatcagc cttgaacatg 120
gtttacagct ttctccttcc gaggagttct tttcagagaa gaaatcagtt ttgatctttt 180
atagtcggtg cttgttgaaa acaagctttt tctttccccc aatgatgacg cttcattttt 240
gaagtgttga agctg 255

<210> 584
<211> 255
<212> DNA
<213> Ratte

<400> 584
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gggtgggtcgc ggccgaggta caagctttt tttttttttt tttttttttt ttttttagga 180
tcacagatac nctgttttatt caaataaagc aagggaataa aagggcgnc tttttaaact 240
ctntntatctt aacag 255

<210> 585
<211> 255
<212> DNA
<213> Ratte

<400> 585
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ctctngangc angcttgagc ggccggccagt gtgatggata tctgcagaat tcggctttcg 120
agcggccgccc cgggcaggta ctaaattggt agttcttgaa gtctaactct gtgctaacag 180
atcttcattt taaatagaat acggttttta tttttgataa gctgctgaat ttttaaagaga 240
gttttttggg gccac 255

<210> 586
<211> 255
<212> DNA
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<400> 586
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tcagtcattc tcaagttcta gccatgggac caacgttagt gttctgtgtc acgtagccac 120
aggtcacggg tacatgtcat ggcttaggaa aatactggca ttctggtttc tgtgaaataa 180
gccttacctt gtgcattcaa gcaaaaaggga aaaacaggca aaagaaaaaa gggggatggg 240
gagaaagcac tgtcg 255

<210> 587
<211> 255
<212> DNA
<213> Ratte

<400> 587
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 cctnctcccc ncnctncccc nnattccttc gaatccactt ttgantacc gtngaattgg 120
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 acagaatcat attaa 255

<210> 588
 <211> 255
 <212> DNA
 <213> Ratte

<400> 588
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 ntcactatan ggcgaattgg gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg 120
 atntctgcag aattcggtt tngagcgcc gccngggcag gtgcttcaga antcaccagg 180
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 aactgcagac aaatg 255

<210> 589
 <211> 255
 <212> DNA
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<400> 589
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 agcngncgcc gtgtgatgga tatctgcaga attcggttt cgagcgcccg ccnnggcagg 120
 tgcttcagaa ctcaccagga cttcactttt aggaaaaacc ttgtggcagc caaggaccgg 180
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 aacagtcacc ccac 255

<210> 590
 <211> 255
 <212> DNA
 <213> Ratte

<400> 590
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<210> 591
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<400> 591
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<210> 592
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 cgtggctcgc gccgaggtac agcccatcta gccctcagnt gccagaggga cctctcctac 180

aacattataa tgaagatg ccttgccctt cgcaccccc acccttagtga aaactattgc 240
cttacacctt gtcac 255

<210> 593
<211> 255
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<400> 593
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tactgctgag attactcagg caggtgagct gatgctggac acgaacccct cagtaaagtg 180
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ttttcttatt tattt 255

<210> 594
<211> 251
<212> DNA
<213> Ratte

<400> 594
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agtgcacaca gacgtgcact cttctcatga ctgcaacagt gatcgggaag aggaaaacct 180
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ccattttgaa a 251

<210> 595
<211> 255
<212> DNA
<213> Ratte

<400> 595
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cagctctaag tcccttggtt tcacagtctt acggccggca tgagcagcaa atacctccag 120
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cttgtagggg tcttg 255

<210> 596
<211> 255
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<400> 596
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<210> 597
<211> 255
<212> DNA
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<400> 597
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aggttttaagt tcagttgcat ctgatttoga ggaaacatga ataaaaattg attagatttc 180
gtaattacat gggtatttat tttgaacgca catgttaatg tatgcttgc tactgattga 240
gcatctatga gccga 255

<210> 598

<211> 255
<212> DNA
<213> Ratte

<400> 599
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aacgaaagat gatgaagggg caacccctgt taagagggcg cgagtggagc gtgatgagga 180
gcacactgta gacagctgca ttggagacat aaagacagat gccagggacg tccctgacccc 240
cactagcacc tcaga 255

<210> 599
<211> 255
<212> DNA
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<400> 599
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atgctgaccc aggactcccc gaaagccctt ggtctctgtt ctgaggactt cttgcagttg 180
gatcatccgg ttattttatg tgcaatttcc ttttccctct ttctgcccc ccccaacctt 240
tgaggcatct gctcc 255

<210> 600
<211> 251
<212> DNA
<213> Ratte

<400> 600
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attcattcta gtagtcagtg gtaaccaggc agcttgtata ggacattgat atttaccctg 240
gttgctgtga a 251

<210> 601
<211> 255
<212> DNA
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<400> 601
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gccaagttaa aggcaaggag attgaatctt gatggaaact cagccctttc cacttttaggt 180
ggttttttct cagcctccaa accatcatca ccaagagaag taaaagctga agagaaatca 240
ccagttttcca ttaat 255

<210> 602
<211> 147
<212> DNA
<213> Ratte

<400> 602
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tgcccgggcg gccgctcgag ccttata 147

<210> 603
<211> 255
<212> DNA
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<400> 603

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 aacatgccga ccattctatgt gtgcactgac aagcttatgt taaaaacttt taagaatact 180
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ataacatgga gatgtgcaaa gttgcggagt ccacagacaga aatggcccaa cccaccaga 180
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gggagactgg agaaa 255

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gataaaaata aataattatt aaaccataaa ataacccttt ccacttctaa tcttctgaaa 180
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caagttgata ggcacataat acaaatttgg taaaacgtgt ctcagagggt aacactgaag 180
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attttgtctt agcat 255

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agcaccgcga ctcac 255

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<211> 251

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ggggtatgaa gatatgcaaa atcctgttcg ttttagagcca ataaaaagtt aactgatggt 180
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<211> 255

<212> DNA

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aggtgcctat cctaggctta gagagagatg agtagacaga gaagttcagg ctgagattgg 180
gcagaggaag cataggcagc agaaaatgct aagtagttta gatattaagt taatagatcc 240
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<210> 618

<211> 255

<212> DNA

<213> Ratte

<400> 618
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tgagctgctt cacagctagc acaggtcaca aggagactca ctggctgtcc atagccacca 240
gacacagaac tgaac 255

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<211> 100

<212> DNA

<213> Ratte

<400> 619
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<210> 620
<211> 255
<212> DNA
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<400> 620
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taaactaaca cattatatat gaaaaaacact ttaccttttt cccactccaa gagtggagctt 240
taagggggtc aagag 255

<210> 621
<211> 112
<212> DNA
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<400> 621
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gtaataacct aggacgtcac agtaattggga ctttcagaat taaactgtc ag 112

<210> 622
<211> 253
<212> DNA
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<400> 622
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aagtaatgaa gga 253

<210> 623
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<400> 623
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tatgggtggg tgttttatcg taatttaaaa ccaggcgaag ttggttagtag gcaaattttt 240
aaaaagtgat agagt 255

<210> 624
<211> 255
<212> DNA
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<400> 624
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cagcattcac attgacacca aagtccagca gaaacttcac gatattggtg tggccagcac 240
agacagcatt gtgta 255

<210> 625
<211> 255
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<400> 625
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 aatatctcac tgcataagga ctgctagact gaacaatatc tyactgcata aggaccgcca 180
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<210> 626
 <211> 255
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<400> 626
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 aacagacact gctatcattt gacaaggaa tccagactcag aacagagaca acaaagtatt 240
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<210> 627
 <211> 255
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<400> 627
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 cactgccagg tgtttctctg amtctccctt cgtatgtggtt cccwhnwggc agctgctgtg 180
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 tgctgactca ggggc 255

<210> 628
 <211> 255
 <212> DNA
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<400> 628
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 tatggtggga aacactaagg aacattggga tctatgddc tgttgggtgc aatgatgctg 180
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 tcagccacag tgact 255

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 <211> 215
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 gtgagacata cctagcttca ggattatttc ttatgcthht tcttattttg gttacacata 180
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 <211> 255
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 agaaaaaaag gktataatgc cmaaaamaaa aaaataaaa ccaaaacmga traaaaaaga 180
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attmagggaa acmgg

<210> 631
<211> 255
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<213> Ratte

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agrggrtrtt tsrgc 255

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<211> 254
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ataaaacttt ctttacacaa ctttagcaga ttaayygtaa ahttgatggg aataargttc 180
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ctggttwgcy atcc 254

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<211> 255
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gaaggcacgc agctn 255

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ggcnnaatna ctcac 255

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ttgggttggg ttttg 255

<210> 636
<211> 255

<212> DNA
<213> Ratte

<400> 636
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cagggatatg gtgct 255

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<213> Ratte

<400> 637
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aaccaaaaatc gtatagtant ccacctgntc cctncacatc tgtggaaaga gtctaagcgt 180
gacaccaag aacaccttac tggcttgccc tctggnatag acacagactt gggcaaagca 240
acctttgctg gacat 255

<210> 638
<211> 255
<212> DNA
<213> Ratte

<400> 638
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<210> 639
<211> 219
<212> DNA
<213> Ratte

<400> 639
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<210> 640
<211> 255
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<400> 640
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<210> 641
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<400> 641

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 ggctgtcccc accccacagt ccacgagact tcacccgaat gcaggacatt cccgaagaga 240
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<210> 642
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<400> 642
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<210> 643
 <211> 255
 <212> DNA
 <213> Ratte

<400> 643
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<210> 644
 <211> 58
 <212> DNA
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<400> 644
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<210> 645
 <211> 255
 <212> DNA
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<400> 645
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<210> 646
 <211> 255
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<400> 646
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 gctgggtgtat gaatt 255

<210> 647
 <211> 137

<212> DNA
<213> Ratte

<400> 647
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taggaacagc gcagtat 137

<210> 648
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<400> 649
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<400> 650
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tgggggtttgt tttctcgtgg gaattttttg tcttttttct ttttttctt ttttttctt 180
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<210> 651
<211> 255
<212> DNA
<213> Ratte

<400> 651
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accaggtgag tgggtggtaga gggacaagg aaacagaagg caggcctgtc ttgactctgc 120
gcatctgtct tctcatctc acccagctgc gttactatga ccaccgagt gacacagaat 180
gcaagggtgt cattgacctg gcagaggtgg aagctgtggc acctggcaca cccaccatag 240
gtgccccctaa gactg 255

<210> 652
<211> 255
<212> DNA
<213> Ratte

<400> 652
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ccagccaagg gttgccttaa attgtgccag ggggtgtatg accgagtga caggcctgga 120

tgtcgttgta aaaactcaaa tacagtttgc tgcaaagtgc ccaactgtctc cccaaggaac 180
 ttgtgaaaagc cgacatagcg ttattaatca ggaatactgc agtaatgagg attgttgccc 240
 cacccccacc cccctt 255

<210> 653
 <211> 169
 <212> DNA
 <213> Ratte

<400> 653
 tataacttgcc cttgcgctcc acgcagtcta cagtcttcat attggaaaag tgcaattcct 60
 tcagcttggc tgggtggctca aggcctggta cggcgggggcc actaggttgg gacgggttcgg 120
 ctgtccccgg cccgggctgt tgctgctgct gttgctgctg ctgatgtt 169

<210> 654
 <211> 222
 <212> DNA
 <213> Ratte

<400> 654
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 tgaccttaca ggtccctcac ctgctcagct tttccaggat tcagggctgc tctacatggc 120
 ccaagagtgt ccagtgcctg gcagagcccc ggcgccaagg ttgccagagg aagggggcag 180
 cagccgggca gaggactctt cagagggcca tgaggaggaa gt 222

<210> 655
 <211> 255
 <212> DNA
 <213> Ratte

<400> 655
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 tgtttccgca actccccctg tagttgtttc tacgagggt aaaacagctt caagaacatc 120
 tgcaaaaaag catcccaaga aatctgtagc taagatcaac cgggaggga atttcaggcc 180
 agaaacaagg gatagtagat ttgattccaa agaaaagctg aaggaagaga aggttgtctc 240
 ctttagccaa acact 255

<210> 656
 <211> 255
 <212> DNA
 <213> Ratte

<400> 656
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 natcgacgnt gtcnngtgg tnttncnan gcngnnttn ngtnnnctnt ntggnnccgac 180
 tactacagga tccgaactnt gntaccncta cctggagtga acannnccat anctctaacc 240
 tgtgttgaaa tgcgg 255

<210> 657
 <211> 255
 <212> DNA
 <213> Ratte

<400> 657
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 cttttccctca tttttagctc aggaaagatg tcaggctcaa accactctc aggttaattg 180
 accctgtccg ttgctctgtg caactgctag cagtatttta agggagaaga taaggcaggg 240
 agagagtagg aggta 255

<210> 658
 <211> 255
 <212> DNA

<213> Ratte

<400> 658
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aaagagtagc agcagcagtg gtgacccctc ctccgacccc ctagggttct ccacactcct 180
ggctttgtga ggcacccagc cacacccctt gcagggtgcta cccgttgcta tctcctttcc 240
ctgttcctcc agcag 255

<210> 659

<211> 255

<212> DNA

<213> Ratte

<400> 659
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tcttgctctg ccttaactac tggaagctgg agacccctgc tcaattccgg cagcgatccc 120
ggcttgagga tgttgctacc tataagggtca attataccag atggctctgt tactgcccacg 180
tgcttcagag ctgcgcacagc ctcccccgat atgagaccac ccattgtgtt ggccgaagcc 240
ttctgcggtc cactt 255

<210> 660

<211> 255

<212> DNA

<213> Ratte

<400> 660
ancnnngncc ngnccgacgn accnctttac agannngnnc annantatna nncacantgn 60
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ntagangcta caaaaannta cagngantgg anchnaaggct aangncaacn tggangcctc 180
nannnccttc atgnncntgg acatatengc tanngacttg ataaacatcg agagcttctt 240
cagtcogagan gtgtc 255

<210> 661

<211> 85

<212> DNA

<213> Ratte

<400> 661
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gagggttttt ttgacatcct gtggg 85

<210> 662

<211> 255

<212> DNA

<213> Ratte

<400> 662
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ggcttggggg gggccgagaa gctgctagcc cctgctacag tctggcgcta gcacagctgt 120
tgcagtcttt tgaagacatc cagttgtgtg acatcctggg acagatacca gaaaaatacc 180
atctacaagc aatgaacaag ggcattggatg aaacctatct ttttttgcaaa cctgttttgaa 240
ggcttggccc ttttt 255

<210> 663

<211> 255

<212> DNA

<213> Ratte

<400> 663
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gcagagcctc gatgaatggg tggaaactcat cctgcggaga ggtgggggaaa ctgangctca 120
ggctgtccca catagatggg gaaaccaaag cctggataga cctccactcg atggagagga 180

gggtcaggaa atgaaagccc tggatagctt actaggactt ccaaggagat gaccggggcc 240
aagctgagga cctta 255

<210> 664
<211> 255
<212> DNA
<213> Ratte

<400> 664
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tggtttctct atatcatttt gtgtttttgc attctgcacc attttacaaa ttaaaatgtg 120
ttttctgggt tttttttttt tttacaagct aagaacctag aatagagctg tctgccgcag 180
cctcctaaaa caaaagttaa caattgttaa agccacagta tccctttaat tgctaataat 240
caacctttct tttcc 255

<210> 665
<211> 253
<212> DNA
<213> Ratte

<400> 665
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agtcttcant ntaaagtatg anttgatga atnaaanaat tgggtcttaa anggtntggn 120
gnatgaaatc tgtgncngta gtaanacant ntcnnatggn tatacttttt ttgnttnatt 180
tctgaggtaa gaattgtnga gacaaacntn tggggcatta gattctagta ttaaaacaag 240
tccaatgtgn acc 253

<210> 666
<211> 255
<212> DNA
<213> Ratte

<400> 666
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ttctgaacca gactttttac acaatcccca gatgcagatc tcttggttag gccacgccga 120
agrtagaaga cttgaatctg gaaggacacg aacaggaatg aactacatga aagtgaagc 180
tggagtaagg catgctgttc ggggtctaat ggaggaagat gctgagccca tctttgaaga 240
tgtgatgatg tcatc 255

<210> 667
<211> 255
<212> DNA
<213> Ratte

<400> 667
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gtgacatcca acttggtgct tgtcttttgt ttaggtggtt caaatggaca cgtgagaatt 120
gcaatcttag cattcaaac ttctttcggc atctgtgggt gactgaagtc cttatcaacg 180
atcacacctt ttataagttt ggtgtcctcc agccgccccac ctacttttgc ttccactttg 240
atgagttcaa agtca 255

<210> 668
<211> 243
<212> DNA
<213> Ratte

<400> 668
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gaggaccagt cctagggctt tgctctctgg aagaacacct ttaggttaatt tttaaaaact 120
ttagcatcag gctgctgaag tgcttgacag aactcctgaa ttatttctgg agcgacttgc 180
aaggagggca ggtattcttg ctgaagatac tgaacacatt cggggccccc tttgagatga 240
att 243

<210> 669

<211> 255
<212> DNA
<213> Ratte

<400> 669
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tcgagtgaat gtggcagtta aacataccgg catttttgg acttgcatat ttagctgggt 120
ggaacagagt tgtttccctc ctgaatttca aagataagac tgctgcagtc gcatcacaat 180
attcagtggt gaaatcttga ttgttactgt cattcccat cttttcgttt agaatcagaa 240
taaagttgta tttca 255

<210> 670
<211> 255
<212> DNA
<213> Ratte

<400> 670
actttgagat cttcgtcaaa gagcagagcg aggtgggcag catgggagcc cttctcttct 60
gagcctcgtg tgccgttgga ccagggtgag ggcacaggct ccagaactgc cccggaagg 120
tgctcttact gctggagcat gctactgtgg catagggact ttaatttttt ttttttaatt 180
tcatatcttt tcattccact gtgtaaagtg ctaggaaatt tccaatttga agttttgctt 240
tttctgacat tggca 255

<210> 671
<211> 127
<212> DNA
<213> Ratte

<400> 671
actctatgcc tttgangtcn ntactnacaa gaggnccaca ccccgantgc naggaacagt 60
tcctgnggnc cgngatggac attcancttg tnnctganc aagatcatat nccncaaaaa 120
ngtacct 127

<210> 672
<211> 255
<212> DNA
<213> Ratte

<400> 672
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gacagcatat cctcagcata ctgcaatata gtgcttagag catcctggat ccgggctgag 120
gccccctcca cttgctgtaa gtcacttgag agtccaatca cccggttggg gctaaaacat 180
gtcttcctga tgaggtcaac tccaatgcgc tcagtgtcat aatacgcata cttcactgtg 240
agaggggtga acatc 255

<210> 673
<211> 255
<212> DNA
<213> Ratte

<400> 673
tgagcaccct gaagggtgaag ggtctagttt tgggccaat tcacaagaac cagaaggatg 60
aagtcaatga aaccgacttg aaacagattg atcccgattt angctcccag gaagatttta 120
aagaccttct acaaaagngcc aagaaaaaga gcattcacat cattttggac ctcactccca 180
actataaggg ccagaatgca tgggtccctcc ctccctcaggc tgacattgta gccacccaaa 240
tgaaggaggc tctga 255

<210> 674
<211> 255
<212> DNA
<213> Ratte

<400> 674
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gcaatcgtga agtgttactg gaaatctttac ctgatttttg gaattttttac gtttaattgag 120
 gagaccaccc gagtagttca gcccataattt ttagggaaaa ttattgatta ttttgagaag 180
 tatgactctg acgactcggc cgctttgcac acagcttacg gctacgcggc ggtgctgtcg 240
 ctgtgcacgc tcac 255

<210> 675
 <211> 124
 <212> DNA
 <213> Ratte

<400> 675
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 atagctactt tcacctgacc aggtctcactt ttccatgtcc ccagaccaat cagaggcacc 120
 ttct 124

<210> 676
 <211> 255
 <212> DNA
 <213> Ratte

<400> 676
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 agtccagggg gctcagcatg tgttccagca cgttgtgcct caggaaggca agccagtcac 120
 caaccagaag agctctggac gatgctggat cttttcttgt ttgaatgta tgagacttcc 180
 attcatgaaa aaatttaaca ttgaagaatt tgagttagt cagtcttacc tgtttttttg 240
 ggacaaggtc gaacg 255

<210> 677
 <211> 255
 <212> DNA
 <213> Ratte

<400> 677
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 tgggcgagtt cttccagatc caggacgact accttgatct ctttggagac cccagtgtga 120
 ccggaagggt cggcactgac atccaggaca acaaatgcag ctggctgggtg gttcaagtgt 180
 ctgctacgag ccactccca gcaagcgcca gatcttagag gagaattatg ggcagaaagg 240
 acccacaataa agtgn 255

<210> 678
 <211> 255
 <212> DNA
 <213> Ratte

<400> 678
 acttcatata tttaaaacttg gaatgaggcc aaagcaagaa aaacacaaaag aacacaggct 60
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 ccccggatta acaaaaacaac cttatgatta gacacttaag acctcgattt tttgcttaac 180
 tagaaattta caccaccana agttcctgat taaaatacag aaatctataa agctggcgca 240
 ggacgtaaac ttgat 255

<210> 679
 <211> 127
 <212> DNA
 <213> Ratte

<400> 679
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 cgtccttatt tcttcaaagc ctggctgctt tgttgcaggc gctgacatca acatgctggc 120
 ctcttgt 127

<210> 680
 <211> 205
 <212> DNA

<213> Ratte

<400> 680
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catcaatgaa taacactgac ggacttcaag agcttgcctg tgggggacct atctactgcc 120
tgggagtcgt gttcttcaag agcgatggca tcattccatt cgcccatgcc atctggcacc 180
tgttcgtggc cacagccgnc gccgt 205

<210> 681

<211> 255

<212> DNA

<213> Ratte

<400> 681
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gcattaggcc ttaaatatgc caatttttgg aatcacatta ttgttttaaat aagaaacgac 120
tctacagaat tgcaatactg gtccaacagt cttgtctttc ttttaaaagca agaaacagaa 180
tgtaagtaac cagaaagcag ggcaggcatt agctaaccga ggagactagc ttcttagatc 240
caagcgtttg cagag 255

<210> 682

<211> 166

<212> DNA

<213> Ratte

<400> 682
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cccacagact tttcttgctc atgtctccag ctactatata ctggcangag gngncttgg 120
aagcatactg antntgcacc tatnctgtct cccanagagt cttggn 166

<210> 683

<211> 255

<212> DNA

<213> Ratte

<400> 683
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gagattccccc aaagggtgac gctatttatc tttagtaagc tatttatctt tgtttttgaa 120
atatcaaaacc ctggagggtcc ttttttcagt atgacttttt ttatttttgt ttttttttat 180
tttgtttttt aggttacttt gtcagaagca taacagggtg taagttgatt cataataaat 240
acctgtccat cttca 255

<210> 684

<211> 255

<212> DNA

<213> Ratte

<400> 684
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ttttttttaca tctttcttgc agttacagat actatttaac aagattccaa tttctaagaa 120
aaacttagtc acaatgctat ttgatcttcc tctaggtctc aaggctgaaa atgtttctca 180
ttcgctttta acaataaaca ggctcttatt ctgaaatata gcaataccag cctataacca 240
acagtgatcc taaaa 255

<210> 685

<211> 255

<212> DNA

<213> Ratte

<400> 685
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tgtggcctga ggcttggctt ttctgacttt ggggactgcc acatctgggc tttctctct 120
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gattattttt tgacaaaaca gggtagcaen agagcaggag atgggtgngg cgggacagtc 240
cggctctgag nggga 255

<210> 686
<211> 255
<212> DNA
<213> Ratte

<400> 686
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taaaaaaaatt gggcattcca ataattaaaa tcgnttgaac aaaaaaaaat ggnactntga 120
ttaaaacngca ttttatatcc tgcaagacat ntttatttta ctctnaattc caccatntcc 180
caccagntt tttccctnac caacatgcaa gttcttttcc ctntctgcca nccaggccag 240
naggtgggag gcana 255

<210> 687
<211> 255
<212> DNA
<213> Ratte

<400> 687
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aaattaagcc aaatgtaaag ccagccacac tgtctctaga acagtgggta tcccccttcc 180
ttagtgcctg acatcttctt agtggtttgt agaaaaatagg tttaaatctg aatattcaca 240
gtgaaaagct gaaat 255

<210> 688
<211> 255
<212> DNA
<213> Ratte

<400> 688
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ggccagagtg gtgaatgctt ttaggataac ctgctagctc ttcattgacct cggatagccc 120
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ccatgttggg tggaagagac ggccaaaatg aagagatcaa ataaaagcca ggctcagggg 240
tcttgagaga ttttc 255

<210> 689
<211> 241
<212> DNA
<213> Ratte

<400> 689
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agatggcaaa tcaagtttgt cagaacaaat ttaccaccac cttcccaagg gaatttcata 180
actcagaata ctcacaggaa cctagacatg catgnttaaa tattatttaa tgaccgactg 240
t 241

<210> 690
<211> 255
<212> DNA
<213> Ratte

<400> 690
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ganctgtctc ccaaattagg gaaggagatg naacagttcg tgaanaanta tgatancgna 120
gctntgngcg tntgcnacgn gaaccttgcn ttcgagatga atgcttaagg tgacaaggag 180
cncaacctg cgggagacan aaacncccca gcnacngtgg gtncaagga caantctgna 240
naagccaaga anacc 255

<210> 691

<211> 252
<212> DNA
<213> Ratte

<400> 691
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ggcaactgga ggcggttttaa ttggaaataa gcatttgaga taatgttaat agcagtgag 120
aaaaatgaag ttaaaaaaaa aatcagtgtt aagaagcctt ccgtccctgca ccttgctttt 180
aattatctcc tccacagaga atgagcagaa ccttcctgta gtctccagaa gtgtcgccct 240
tgataaaaga gt 252

<210> 692
<211> 242
<212> DNA
<213> Ratte

<400> 692
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ctcaagagng ttggtggccaa gtccaacgcc tcgcagctca ttaccagcgg ggctcagggtg 120
nctctgttga tccgaagaga gctgacagag cgtgccaaagg acctcagcct catactggac 180
gatgtagcta tcacagagct aagcttcanc cgagagtacc tgcccggncn ggccgctcga 240
aa 252

<210> 693
<211> 255
<212> DNA
<213> Ratte

<400> 693
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atacaaactc taaaatccaa caactcaatg gcacaagcca tgaagggtgt tactaaggcc 120
atgggcacca tgaacagaca gctgaaatta ccccagatcc agaagatcat gatggagttt 180
gaacggcagg cagagatcat ggacatgaag gaagaaatga tgaatgatgc cattgatgat 240
gcaatgggtg atgag 255

<210> 694
<211> 255
<212> DNA
<213> Ratte

<400> 694
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gggatgtgga actcctgatt tactaccgtg aagtgcacag cccagtgta gctgtggaga 120
agggaatgca ggacaagaag cgagatagtt tgatgggagc tccttgtgca atgggtgagct 180
tctaccaga catcccagaa gtgaacgcct caaagggtctg tggagaattt gtgtttctaa 240
tggaccgctc aggaa 255

<210> 695
<211> 183
<212> DNA
<213> Ratte

<400> 695
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tcctgtccgg cgggtaaaacc aggagcagta ggcgctgcag gaaccgaggt aggaaggag 120
tgggctgctc cacaaacacg ggcagaagca cccggggggg aggctgacct cccgggagag 180
gcc 183

<210> 696
<211> 183
<212> DNA
<213> Ratte

<400> 696

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 atggagntgg tcaaagggaa catctgggtt atgccttttt tacagtagct ttaggaaccg 120
 tcggcatgtt gctggtgaag tgtggagttg tgagccgtgg actgtggaca gtcnacagcg 180
 ngc 183

<210> 697
 <211> 255
 <212> DNA
 <213> Ratte

<400> 697
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 agtggagttt gtgggtaacc ttantctctc cttgctactg aattcataaa gnaagaggcc 180
 tttaaaaata acccacaccc tttaattttc tactacataa taggattata aggccacaga 240
 attccttttg ggaaa 255

<210> 698
 <211> 245
 <212> DNA
 <213> Ratte

<400> 698
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 caggtctgca atcgagagg ccacgacacc agagaaagct tcttcaactg gttttccaac 180
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 <212> DNA
 <213> Ratte

<400> 700
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 ccgggcttga gtcattatca tccttgntcc tccggtcagt gacgcacgc ccccgcccg 180
 acgtgcaagn ccgc 194

<210> 701
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 <212> DNA
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<400> 701
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<210> 702
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<212> DNA
<213> Ratte

<400> 702
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gatctgggtct gtgctcgagt ccccaagggg tgtttggatg caagcagaag tcagctttta 180
gaagcccatg cccacgaagg tggctcttat gagcctatgc aaaagctttt gggactgtgg 240
actggtagcc ctgga 255

<210> 703
<211> 255
<212> DNA
<213> Ratte

<400> 703
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gagatggctg ctcaa 255

<210> 704
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<213> Ratte

<400> 704
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cagagctaatt atcagataca tacctcgcac tgttcttgac tcagttacag caagaagggt 180
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<210> 705
<211> 255
<212> DNA
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ggaatgttat atata 255

<210> 706
<211> 255
<212> DNA
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<400> 706
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gcacaaatgc tcaca 255

<210> 707
<211> 255
<212> DNA
<213> Ratte

<400> 707

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 ccctgatgcc tatga 255

<210> 708
 <211> 107
 <212> DNA
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<400> 708
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 <211> 163
 <212> DNA
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<400> 709
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 ggcttgatt ttaaaaaaag aaaaaataa agagagcaga att 163

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<400> 710
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 agaaacgagc tgatg 255

<210> 711
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<400> 711
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 gaggcctgtg ccgagacggg ctgttccagg acaccggcca atggctccgca gacacacagt 180
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<210> 712
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<400> 712
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<210> 713
 <211> 255
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<213> Ratte

<400> 713
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ctgtggcctg ggtcctaaac ctggccttaca aacctttgaa gttccagtc aatttgagct 240
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<210> 714

<211> 255

<212> DNA

<213> Ratte

<400> 714
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gccccatctt gcccagagga ccacctgtta agcctctac ccagcctgtt ggttttgatt 240
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<210> 715

<211> 255

<212> DNA

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<400> 715
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tgaaaaaatgc agcaataaat acagttaaag ggaacaggga ctttacagta aaacattggc 180
acaaatgaaa tttgaaggca cncacccan acctacatgt ctgggggcat ttttgtaaac 240
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<210> 716

<211> 255

<212> DNA

<213> Ratte

<400> 716
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<210> 717

<211> 255

<212> DNA

<213> Ratte

<400> 717
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tccagttaga cttccccctc ctacattgca gtctatggct cctgctgggc ccaccccttc 180
tacagtggcc acgccattgc ctttcccccc gagcttacct cctctgcttc ctcttctgtc 240
aagtggctct ggtgt 255

<210> 718

<211> 255

<212> DNA

<213> Ratte

<400> 718
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tagcctctct ctccatcctg tttgcttaca gaccaaagca ccaaaaaat aattaaagg 130
gaaagcgggg tttcctttcc attcttcaa gccctccttc agtgggtcc ggtttccagg 240
atgatctctc tgtct 255

<210> 719
<211> 197
<212> DNA
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<400> 719
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ataggctgaa aacaggctga gtgagacagt cagcaacact ggttttgctt cagttccttc 180
tctgggtcc gccttaa 197

<210> 720
<211> 255
<212> DNA
<213> Ratte

<400> 720
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ctctcggcaa agatg 255

<210> 721
<211> 255
<212> DNA
<213> Ratte

<400> 721
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atgctcatgt gttccgggag aacataggaa atgtcgtccc aggggtgacg atacagccct 120
tgcttcagcc tcttctgggc aagatagtgc ccgatgaagc ccatactcct tcccagcaca 180
aagacgccat tgagggtccc aatgtcaaca taccgcgcag cttcctcccc ggtgaaggag 240
ccacagtccc taagc 255

<210> 722
<211> 255
<212> DNA
<213> Ratte

<400> 722
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caocaaatga caagatggaa cagaaacaga gtaaaaaatat atcagctggg ttatttttag 120
aggatatgt taactaaaca cttttcaaac taaagctcat tctttaagga cctctcggag 180
accatatgaa tgtttctgta tgggtgtgta tataattact tatatcctga attctactta 240
attttggctc totta 255

<210> 723
<211> 81
<212> DNA
<213> Ratte

<400> 723
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agccgaatta cagcttgagg t 81

<210> 724
<211> 149

<212> DNA
<213> Ratte

<400> 724
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aataaccaat aagaaatgaa gaccaaccac ccattctataa aaacctcacct tatcctttga 120
atccaaatct gacagcatgg aagatcaga 149

<210> 725
<211> 255
<212> DNA
<213> Ratte

<400> 725
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gaccgaatcg acaaagaaga aatgggaaac ggaaagaaaa ctggggcatt tccttttcct 120
cgttgtttta atctggacaa aagcctaact cctggcatca ggatgctact gtgactcaag 180
agagaagcta gaactgcact agtcacgaag gtcaagttca acctctagga ggatggagaa 240
cactcttctt gtggc 255

<210> 726
<211> 255
<212> DNA
<213> Ratte

<400> 726
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cttctaacac aatgtctgag gcttcaatca cctttttaag ttcttgacaa tgtaacttct 120
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ctttttgcct gtcaa 255

<210> 727
<211> 255
<212> DNA
<213> Ratte

<400> 727
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gtgttaaatc ctata 255

<210> 728
<211> 255
<212> DNA
<213> Ratte

<400> 728
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ggcaagtgca attctagact gagcatggt ttctggaaca gatgatcttg gatgatcagg 180
aatccgagga cctggaccgt ccattcattga gccaccagtt tgctggagca cagacatggg 240
tgttctagca ctcc 255

<210> 729
<211> 255
<212> DNA
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<400> 729
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gctctcggac ctagtacagt tatctgatgt cagggttggg ccatagcctt tgtgaacttc 120

ttgaccccag agctattttgc tgagggtttgt atgagaagtg tgtggacaac aacctcaggt 180
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<210> 730
 <211> 255
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 <213> Ratte

<400> 730
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 aatctctgtct gggcaaggat gttctgttct tgaaggattg tgtgggtca gaagtagaga 120
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 aaattgatgc ttccc 255

<210> 731
 <211> 255
 <212> DNA
 <213> Ratte

<400> 731
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 ngganccttn cggaagcaca ctcanagnc aggnctcncc ganacnggag nggcnnnag 120
 acccaacaan aagangngc annngnggn caaacngcct ngggnnnnng gaggaanga 180
 agcngnncca annngagngc acaagggngc ggaaagnncc ngncnnngag naaaannag 240
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<210> 732
 <211> 255
 <212> DNA
 <213> Ratte

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 ggtcaccaag catattgcac atcacagaga gagagagaaa cattttgtgca tctcagtaag 180
 tttgcccaga gtgtccaact ctgactttt tattttgtag aaacacattt actttttgtg 240
 cgtgtaataa ataaa 255

<210> 733
 <211> 255
 <212> DNA
 <213> Ratte

<400> 733
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 aatgtgactt tggat 255

<210> 734
 <211> 255
 <212> DNA
 <213> Ratte

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 aggaccttct ccatggcttt actctggntc ataggnaatc agaagacctt gcccttgatac 240
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agctgaaaat tgacg 255

<210> 736
<211> 255
<212> DNA
<213> Ratte

<400> 736
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aaaccacagc atctactgat cctgctcctc agcaaggctc tggcttcttt cctgagtatt 120
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acctttaact aactg 255

<210> 737
<211> 255
<212> DNA
<213> Ratte

<400> 737
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ccgcccacac atagaacggc caacaaaatg acaaacgccc aggctgcata gatacctcca 180
tattgctgtg caggcttcca tgcgccaaaa gcaaggccag tggcagtgac tgccaagagt 240
aaaccaagta agaag 255

<210> 738
<211> 255
<212> DNA
<213> Ratte

<400> 738
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tgccacagga accgngngtg agagtgaatg tgccccatgt caagctcaac acttcataga 180
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aagaaagtgt tcgaa 255

<210> 739
<211> 227
<212> DNA
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<400> 739
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ttttaaaact cctcttgctg agctgcccag taggggataa ttggcacagc ttttccaaag 180
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<211> 255
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<210> 741
 <211> 255
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<210> 742
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 <213> Ratte

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 <212> DNA
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<210> 744
 <211> 175
 <212> DNA
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 aacatttgat gttactgcaa cgttttcagg tgtggatctg gaagggtggc cttgtagtca 120
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<210> 745
 <211> 255
 <212> DNA
 <213> Ratte

<400> 745
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<210> 746
<211> 255
<212> DNA
<213> Ratte

<400> 746
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agaccacagc atctcactga tccctgctcc ctcagcaagg ctctggcttc tttcctgagt 120
atttggttct agtagtagtg gccgntgnnt agacatacag tctttatttc tgtgacagag 180
tttgtgatcg tgggctgagc ccaggccctc acgtgccgct cacatactct actactgggc 240
tccactccag ccctc 255

<210> 747
<211> 255
<212> DNA
<213> Ratte

<400> 747
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cagaaacctt cagacagaac atagaggaat taggcattat taaaatacac tcttgccaag 120
ggattnaaca ttagaatatg ggggggggat gggaaacaca ggacaactca nccactgcag 180
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acttctacct ccacc 255

<210> 748
<211> 255
<212> DNA
<213> Ratte

<400> 748
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aacctccaag tgttggctca atgacggatg aacatgggca tcagagacca gtagctttct 120
tggcttacag agtaaacgga cagtatatta tgggaaggact tgcgtctagc tttctcttca 180
caatgggagg cttagggttc ataactctgg accgatccaa cgcaccaaact ataccaaaac 240
tcaataggtt tcttc 255

<210> 749
<211> 255
<212> DNA
<213> Ratte

<400> 749
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ccgcccacgg tctcctccaa cgcggactcc ggcagtttct tcgccagagt cctcgaaaact 120
cgactaatcc cttacgcgta gcaccagacc accggcgctg cccaccatgt cagacgcggc 180
agtggacacc agctccgaga tcaccaccaa ggacttgaag gagaagaagg aagttgtgga 240
ggaggcagag aatgg 255

<210> 750
<211> 255
<212> DNA
<213> Ratte

<400> 750
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tcttttaacg ttacacagaa ttagagattg ctgtgaattt ttttttaatt tgaaatccgg 180
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tggcttttac actga 255

<210> 751
<211> 255
<212> DNA
<213> Ratte

<400> 751
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 agaacatcgg agctatgtca agctacctct tcatagtga atattgagta cctttgggtga 180
 tcaaggcggt aatgaacact gaagatacga atgggctgtg gtatctgaac ggcgactatc 240
 tggtccttct ggtgt 255

<210> 752
 <211> 255
 <212> DNA
 <213> Ratte

<400> 752
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 ttgactggac cagcattcca gctccaatca tgggtgcgaa ggttgacca attgtcatcc 180
 aagagcctgt catcatgaag ttcattgagg caggtgatct ggctaattgc agggcagaca 240
 acgctgttaa accaa 255

<210> 753
 <211> 255
 <212> DNA
 <213> Ratte

<400> 753
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 tgtgagagag catcacagtt taaaactact tgtgtttgct catcagttcc agtgacaatg 180
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 aaccaaataa ggaac 255

<210> 754
 <211> 255
 <212> DNA
 <213> Ratte

<400> 754
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 tcttgccctn ccaccnagta aagtcaaata caaggctact acccaaagca gaaacccag 120
 tccctatcct anactcctcc tgtgagccna aaatatataa agtgctgggt tgtaatatgg 180
 ggaaggccna acggactnag aacccacccc ctggacccca tcaggaggag gagcccttgc 240
 anaaaaaang gcagg 255

<210> 755
 <211> 255
 <212> DNA
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<400> 755
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 tgctgtgaa gcaaagggaag ttctctgac aaaagccaag ttttccttcc cactgtctcc 180
 caagacacct ctgtcttctg cttgctaccg ctgagagttg catggggcac ttgtctaaaa 240
 attcagcctc ccaga 255

<210> 756
 <211> 218
 <212> DNA
 <213> Ratte

<400> 756
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 gatccaaata cagcattcaa aggtaatgg tccagtgtg cctggggagg aggaagggga 180

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218

<210> 757
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<212> DNA
<213> Ratte

<400> 757
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ctgaaatgga agacccaac cgctcccg taggccgtga agtgctggac cctgagcata 180
ccagcccttc gttcatgagc acagcatggc tagtcttcaa gactttcttc gcctctcttc 240
ttccggaagg cccac 255

<210> 758
<211> 255
<212> DNA
<213> Ratte

<400> 758
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atggcttttag gccttaataa tgccaatttt ggnaatcaca ttattgnttt aataanaaac 120
gactntacag aanggcanaa ntggaccaac ancttgttn ttctttann gngnnaacca 180
tacnggtgt aacnanacaa gcanggcna gnatnannta nccagnatn ctatcttttt 240
taaacccaag nnttn 255

<210> 759
<211> 255
<212> DNA
<213> Ratte

<400> 759
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anctgcaaat ggtggacagt gctggcaagt ccgtggctgg tgctgatctg ctgccggcta 120
ctgcgctcct tgaaccagac aggggtgcag ggagcccatc gccctgactt tagtcactgg 180
cttaccagct ctgaccacaa agtccatctc tcaggccctgg ctgccctctc cctgggttgtg 240
atcttcattt tagtt 255

<210> 760
<211> 255
<212> DNA
<213> Ratte

<400> 760
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tgcaaatggt ggacagtgtt ggcaagtccg tggctgggtg tgatctgctg cgggctactg 120
cgctccttga accagacagg ggtgcaggga gcccatcgcc ctgacttttag tcaactggctt 180
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ttcatttttag ttcag 255

<210> 761
<211> 255
<212> DNA
<213> Ratte

<400> 761
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acctccacct caagcctcag agtgactgac gcatttgcga agctcatgtc tacagtggaa 180
aagacgagca cgtcgaccag gaaacaaaa agggaggagc acctaaagca ggaggccgta 240
aaggtgatcg tcagc 255

<210> 762

<211> 255
<212> DNA
<213> Ratte

<400> 762
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ggggaactgt gtaggacctt taagtctctc tgccaattgtg gcaaaaaaaaaa aaaaaaaaaa 120
aaaagggtgga gaggggtggg ggtggggtag aaaagacaaa acaactgaca tcagggtttgc 180
tttgccccctg cactgggggtg gccctacctc ctgctacagg tgcaataactg gaggacaggc 240
actctaggca tgggt 255

<210> 763
<211> 255
<212> DNA
<213> Ratte

<400> 763
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gccccaaaaac ngcnganana gagenantan ttcnanntta tgcnaatccn ttgggtggaaa 120
gannctttgc aaantttccan ccttttnaana annanggctt gnccnagaat tttcncncn 180
aatnggggaat nggggttccan tnacnnngn ttggnthcna atgntaaacc cnccttttnaa 240
ccngnccgaa ntctg 255

<210> 764
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<212> DNA
<213> Ratte

<400> 764
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tctcctccag gaacactggc cagcgagctg tgctgaagtt tgccgctgnc acaggagcca 180
ctccaattgc tggccgnttc acacctggga ccttcaactan ccagatccaa gcagccttca 240
gggagccccg gcttt 255

<210> 765
<211> 255
<212> DNA
<213> Ratte

<400> 765
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gggcactgcc cttctggaat gaagaaattg tccccagat caaggagggg aaaaggggtct 120
tgattgctgc ccatggcaac agcctacggg gcattgtcaa gcatctggag ggtctgtcag 180
aagaggccat catggagctg aacctgccaa ctggcatccc catcgtctat gaactggaca 240
agaacttgaa gcca 255

<210> 766
<211> 255
<212> DNA
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<400> 766
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accgaaatc ctgaattctg gatnctnnct cctntttccc cactgaggaa anttacgaga 120
cttaggacat ctcaaacggt gcatntcaag gggcccanga gctnacatcc ctgngacccg 180
gggatnttgg accctgactt tgtctaaaaa cccaacccag acttcaagac ggttctngac 240
actgnaaaca ctcan 255

<210> 767
<211> 255
<212> DNA
<213> Ratte

<400> 767
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 aacattggag agtgagctgg tagcttcctt ctctggacac tggtcaggig gcttccctaa 120
 gccatcagaa gtccctactc tgctcctctc gggctgaagg gcccggggac agtgcttcag 180
 tttcttccag gactttgac tcagagggtgc tcttcatttc ccaggacaca gaagtattaa 240
 gcaacttata actaa 255

<210> 768
 <211> 255
 <212> DNA
 <213> Ratte

<400> 768
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 aaaggtcncc antgccaggc atctggggcat aaaaatgggt atggacaaca aggcntagga 120
 aacaatgcat anaaagttag aaattttaaag ngatgtttt ggggagggag gtgctggcga 180
 aagggcttac agatagcatg anaccnnagn ggttttgatt ggtgtttctg gctggcactt 240
 acagctctgg gacat 255

<210> 769
 <211> 255
 <212> DNA
 <213> Ratte

<400> 769
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 gccctagatc ctggccgcct gagtccccgg gccatcttca aggagacaaa gacacaggcg 120
 ctgactaaaag ttagaacctt cggctctgagc agtcactgtg aacctgtgac gctgctcctc 180
 ccggcctgtg tggaggactc agtgactcct atcaactttgc gtctcaactt ctctcttgtt 240
 ggagtgccca tccct 255

<210> 770
 <211> 255
 <212> DNA
 <213> Ratte

<400> 770
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 atgttgtctt tgggtcaaata aacccctgtc tccctcttga actccttgac aatgtgccgt 120
 aacaaagctt ggtcaaaggc ttcacctcct aagaaaagtgt ccccatgtgt ggatttcacc 180
 tcaaacactc ctttctgaat ttccaggata gaaatgtcaa agggctcctc acctaaatca 240
 tatacagcaa tgact 255

<210> 771
 <211> 255
 <212> DNA
 <213> Ratte

<400> 771
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 gttatgtagt ccaactaagt cttacggctt atagatttga tggttctcggg tgggtcccaga 180
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<210> 772
 <211> 255
 <212> DNA
 <213> Ratte

<400> 772
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 gacactaagg aagtcacctt ttatcctcaa gacacccctg accaaccctt cacagcactg 120
 gccatgtggc ccacccca gaacccctggc tacctgggac ctgctccga agaggtcatt 180

gccacacaga tccttgcttg ccgaggctta ctctggccac aaccttgaat acctgggnagc 240
gnttggcagg acttc 255

<210> 773
<211> 255
<212> DNA
<213> Ratte

<400> 773
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aatcttggat gtttcatact tcccaagtaa tgaaaacatg gcagggtgca gatgtagaga 120
aaagaaggcg gttgatggag agccttagag gccagcatt cgaaattatt cgagtccctca 180
agataaacaa ccggttcatt accgttgag aatgcctgaa gacgcttgag acaatatattg 240
ggattattga taatc 255

<210> 774
<211> 255
<212> DNA
<213> Ratte

<400> 774
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atagctgcaa atcccagctc tcccttgaaa atacattcaa gttcataaca aatgttaatt 180
gcacttaaaa attaaatagg atgtgaagaa aggatgcaat ataaagacac tcaagacctt 240
tccatttaat ctgcc 255

<210> 775
<211> 255
<212> DNA
<213> Ratte

<400> 775
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gcttctccta tgcatttccc aaatccatca ctgncttctt taaagagatt gaaattatat 120
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ctggtggctg cctgt 255

<210> 776
<211> 255
<212> DNA
<213> Ratte

<400> 776
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tcacctacca acccatgagg aacaaggact tccaggaagt gacactggag aggggaaggcc 120
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agttaaaacg aggcgcgtgt ccctaccatt acgtggaagt aatggcctgc ccttcaggct 240
gcttgaatgg agggg 255

<210> 777
<211> 255
<212> DNA
<213> Ratte

<400> 777
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aacagtggat cgtcattggg agtgggttgt atccccagtg agactctgtc caaaagaact 240
gatctattta caaat 255

<210> 778

<211> 255
<212> DNA
<213> Ratte

<400> 778
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agtacctcgg ccgcg 255

<210> 779
<211> 255
<212> DNA
<213> Ratte

<400> 779
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cagtaaaccc agaaaacgtc ccacagaataa aaaatggcag gtgctggaaa aacgatggcc 240
agagactctc aggac 255

<210> 780
<211> 255
<212> DNA
<213> Ratte

<400> 780
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attgcaagaa tacgttttctg tggacagaat tcacagaccg aaccttggca cgatgccctc 120
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ctgncagca atatg 255

<210> 781
<211> 255
<212> DNA
<213> Ratte

<400> 781
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aaaggctgtg tgaactagat ttcataagga ccagggttgt aacaatgcta acagtcccat 120
agagaaccac aaatgcctaa catagcatct gaggtgtat ttgagaagt tttcccagt 180
tccacgaact ccagaggaaa cattaacaca atatgaaaag acgaaagaaa gaaagaaaaga 240
aagaaagaaa gaaag 255

<210> 782
<211> 255
<212> DNA
<213> Ratte

<400> 782
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acgctgagtc ccgga 255

<210> 783
<211> 121
<212> DNA
<213> Ratte

<400> 783
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t 121

<210> 784
<211> 255
<212> DNA
<213> Ratte

<400> 784
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ggtttcttag aaccagtata atgaattcaa gcacaggcag aattgtttt gacaatgagt 120
cgctgttccc cagatctagt gtgttctgaa aatggagaac ctgcctgtnt tggctcctca 180
acagaagctg cccacaggag gcaggacagt gcttaggtca ttcattatga ctgatttctg 240
gattagacta cnngt 255

<210> 785
<211> 255
<212> DNA
<213> Ratte

<400> 785
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gtagcatcaa acatttccag agaacaaata tccagccacc agccacagat gagaggggaa 180
actccaattt ctaccacaac taacagagag accttaacca caatatagca gacgcccagc 240
aagcgacgag accta 255

<210> 786
<211> 255
<212> DNA
<213> Ratte

<400> 786
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gttgctctgc acaggctcctg ggacctatgg gatggggatg acatcatact cagtaggcca 240
agtctttata gtagt 255

<210> 787
<211> 255
<212> DNA
<213> Ratte

<400> 787
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ctccctgccc aggagctcag cttgctgctg agggctgggt gtgacctatg ctgcctccgg 240
ctgctgggag aagct 255

<210> 788
<211> 157
<212> DNA
<213> Ratte

<400> 788
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tccggatccc aaaggcaatg gtgtaaacgt caaatct 157

<210> 789

<211> 255
<212> DNA
<213> Ratte

<400> 789
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cccacacagg gaagatgccg tgtggacttg aaggcagaga tcagaacaat gtatctacaa 240
gccaaaggaat gccaa 255

<210> 790
<211> 127
<212> DNA
<213> Ratte

<400> 790
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ccaaacttag ctgataagtt gctgtcaaga ctgggagctc ctaccacaga gagaagcctt 120
ggagagc 127

<210> 791
<211> 255
<212> DNA
<213> Ratte

<400> 791
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gctgaacaaa tggaaaaggc tgaagaagag agtcggctcag aaaacagtct cccagccaag 120
atccccagca gaggggacga aacgggtgcct gcctcccagc aaccctcgac acagcttcct 180
ccagacacag cctctcctct cctcatcctg tcacctnctt tttctactcc taagtctctg 240
ctcacgggca gntga 255

<210> 792
<211> 255
<212> DNA
<213> Ratte

<400> 792
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ctctgttaaa ttcggtctta cttoctcata gaggataagg ctagtatcct ggataaatcc 180
tgctctgtca cacataaacc ggagcaagtc acgtatttta caggatatgg gtgtgtagat 240
gtgtccacag taatt 255

<210> 793
<211> 255
<212> DNA
<213> Ratte

<400> 793
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ctctataacg gggatggcga gaaggattcc aagactggga gaggaagatg tatacattgg 120
atatttgccc ctggcacatg ttctagaatt aagcgtgag cttgtgtgtc tttctcatgg 180
atgccggatt ggctactctt caccacagac attagcagat cagtcttcaa aaataaagaa 240
aggaagcaaa ggaga 255

<210> 794
<211> 255
<212> DNA
<213> Ratte

<400> 794
gcggccgagg tacttggcca ggcgctcaga tcggcagggg gcaccagtct tgatctgccc 60


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agtgcagagc cccaccaacca ggtcggcaat gaaagtgtcc tcagtctccc cagatcgatg 120
ggacaccatg acaccccagc cattggactg ggccagctta cacgcctgca gagactcggc 180
cacagagcca atctgggttca ctttgagcag gaggcagttg caggactttt cgcctgcagc 240
cttggcgatc cgctt 255

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<210> 795
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 795
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aaattgctng ncttgaggaa aaattcctta aagcaaagga ngaaagaaga tacttgctga 120
agaagctnct ccagatccat gctctaactg aaggggaacc acaggctgcc gctccttccc 180
acagctccag tttgcccctg gcttatggtg ncaccagctc tgtgggaacc atccaggagc 240
ccgggcccag nactg 255

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<210> 796
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 796
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atacttgctt cttggatatt gcagctgact gccatgttct ttgatgacta gtgataagca 120
ccattgagag ctgactctac ctaggagaag ggtgggatct ttcttctcca catccttacc 180
tcttcttagc atcccaaatt cagggcatag agcaggagag aagcacttct catgccaccg 240
gtggctgtag gcacc 255

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<210> 797
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 797
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tggagaagac atgagctggn gaagagcaaa ccctacatgc agatgtggac actggcctct 120
caaagagtgg nggtgtgtaga tgccctgcccc agctagagct gggcagaggc gacagggagc 180
ctagcctctg aggccttact ccagcttttt ggttggcacc cgggtccgtg caatgataat 240
gggcaccaga gccag 255

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<210> 798
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 798
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tcctctggaa catcaccagc ttctcagctt tcaggtcaga catgtccagc ttccgcctct 120
tctctttgac agccgggtgt ttgcgcacaa gcagccaacc cacgtgagag aagaaaaagc 180
cacggcggga gttgtgaggg tcggcagtgt gtctctgaga acttgtgggtg ggcgcgggtg 240
tcccgggccc attcg 255

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<210> 799
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 799
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ccaagaccaa ggctgcaagg actgtcctct catccatcta tgcgtctgtc aagtgcatta 180
gtcggacaac tgggggctaag ggcaggggaca gatgttgact gcttaagcag gaatagccca 240
agcttgtaag aaaaa 255

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<210> 800
<211> 255
<212> DNA
<213> Ratte

<400> 800
acatccctct tttctgttaa gtaagggttg tcaagtgttc ttggatggag aggggggaaaa 60
aagcccccctt cattgcaacc tgaatgaatg aagcaacaag agtaagtctt tttcaatcgc 120
taatatgtca gtgacgttac tgtccagaca tgtgttaaca ttaacacgag taatagatgg 180
tcttacaat tctcgaaaaa tgtaaatcat ccaatttcaa aacgttacag aatagtctat 240
tggattttgc aactg 255

<210> 801
<211> 255
<212> DNA
<213> Ratte

<400> 801
actttccgcc tagggcttgn caaatcaaca agnccctcac caccctgncc actagcgctc 60
accctccac aggattagac cagtgccagn tctgnagcca gtgggtggaca caatcnccag 120
gccccanagg gtttctctct tccccaggg ccaagataac tgtctntccc anacggagac 180
aggnnccctn atgaanccnc nccanennn anaaccgtct tancgnncn gtaccnaggn 240
ccnggcctna angga 255

<210> 802
<211> 255
<212> DNA
<213> Ratte

<400> 802
accctggaga tggacctgtt cgggcagcaa cagcttgttt tggatttccc aaatctttcc 60
tcagtgggtct tcatgaattt cccctcaaca aagtaaaaag tctcctcaat ggaacatttt 120
ctgctgaaat gctatcctna gagcctaaaag acngcacttc anttnaagaa agtaatggtg 180
agcttgagaa agagattgct gagcaagcgg atnaggacag cattgcagac cgnccanaga 240
gcaaccgcaa aacng 255

<210> 803
<211> 255
<212> DNA
<213> Ratte

<400> 803
ncttcttcac ataacagagg gnacccgttg cacactgcaa tgntagcact gcctccataa 60
ancatcantt aagaaaggcc caanagtang atgctgtttc ttttaaaata atttanaata 120
tattaactnt cctaaggcag attttgtgtg aggcggtgnt gaataggtan ctgntnccgn 180
tgccaaagaa cggcgcttgn aaggnnctgn ctgntctgna canttgangc ggngggtaaa 240
tcccntnagg cacnc 255

<210> 804
<211> 114
<212> DNA
<213> Ratte

<400> 804
ggagtctggc tgttttggga gccgggtgtg cctcgaggatt tttgtatttc tatttccgag 60
atcctggaaa ggagatcacc tggaaacact ttgtgcagta ttacctggcc cgag 114

<210> 805
<211> 255
<212> DNA
<213> Ratte

<400> 805

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ntatntgttt ntangatttc nngagatttn tngaggatt tacttgctga cttgtatttn 60
tttttcnntg atnccccntg gagaagaatt ntatcangtc tttgngaactn ccttaccaca 120
ttgggaatat tgtctcangc tctttgaatg ngtgttggt tntnannant nttgncnngn 180
nnnnangatt ttagngatnc gttgccttta nngagatnng nttncntggg tcttannttg 240
naccggaatt ancca 255

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<210> 806
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 806
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anacnatatn acgaatggac gccttcaaaa atgtccccac acagnccang gtggcctacc 120
ggactgggt catntgtgcg gatattgtatc ctacagggtt gggtttctct ggagacccca 180
ctgggctgga aacaggcgtc tagaaacgca tctgtctggg cagctatgga tgaagtgacc 240
ttagagctgg gcacc 255

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<210> 807
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 807
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acgacgaaga aacccaaatc catagctgtc cagagatgac attttttctc agagtcagag 120
cacttaaat caccaaagt cagcagtcga ggcagctgga aggcacccca acttncaaac 180
tggatcccag agcgaagaa gttgaggggt aagggtggcag acatggaaca gaagagcact 240
ttccacgtga gtccc 255

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<210> 808
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 808
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ccaatgcttn tggggcacaa tcagagcact ttatcaacct tcgagaggtc agtaaccgca 120
tncgcctgcc gccgggggag tatatagtgg tgccctccac cttcgagccc aacaaagagg 180
gtgactttct gctgcgcttc ttttcagaga agaaggctgg gaccaggaa ctagatgacc 240
agatncaggc caacc 255

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<210> 809
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 809
agctgagagt agctttcagc cttccactca cagagctccc tgagatagag cccaggctct 60
ggagcatctg ctgccacaca taagacacac ccagctctct ctacagatc ctatcctgtg 120
ggtgttgaga gcagaggagc agctacaaga atcagtattg tgggtcattc cagtgtttat 180
tgtaaaatgc aagtgagtgc catttaacct catgattcta atgtctgctg aacgaccaga 240
caggcatat cccag 255

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<210> 810
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 810
ttagcnnntt cgcggccgag gnacgcccac tngtgggggg gccntgaag gggaagggtt 60
ngggcngaca tcacaggnc cttccngggg ccccactggc cagctgnaga gagcacaggc 120
tactacgtca ggctgtgtga ggttttnant tgctgccttn ccttngnnn ataaganctg 180
gacnanaggn ncnccnnagn nngntaaaga aactggntna nngnctcga accaanctn 240

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aaattgngcn tntga

<210> 811
<211> 255
<212> DNA
<213> Ratte

<400> 811
atccagtgcc catggatgcy ggttttttggg tttgttcagg ctgtgagaag ttacacgctg 60
gtcagctgac tttttctttt tgagagaatc acctctcaaa tgcttttctg tgctccctga 120
gggcttctg gctggntgca ggtttctggg ttaactgggt tctgggctgg ctgggtgtct 180
gttatcactt gatagaaaga atagaaaatg tttctactct taccctgcta gogttgagta 240
gtgctaaatc ctata 255

<210> 812
<211> 255
<212> DNA
<213> Ratte

<400> 812
acaagctttt tttttctttt tttttttttt ttttttttac cttaaataatg taactttttat 60
targaacatg aagcatgtat gtttattagc actgactttt cctaaggntca acaacctcaa 120
ccaccatatt gnccctatct ccgnccctctg natgctgaca caatcacatg atgaatcagg 180
acggctgtaa gagctgnatc tgataacttc agnagnaaca acaatgngtt atatttggat 240
ttttattaaa tcaag 255

<210> 813
<211> 175
<212> DNA
<213> Ratte

<400> 813
gattggggcg gccagcctg tgggggtcggg acacgagctt cagctgtttc tgtagtttgt 60
aaacagtcac gcagacgggt tctgggtttt ctcacagggt gtaagggtcca ggctgtccat 120
tcagggtggag agggataaaag gagaagatgt ggtcacttct gtgtgctaag gacgt 175

<210> 814
<211> 255
<212> DNA
<213> Ratte

<400> 814
ttagctgtgg tcgcgccga ggtacttaat agatgtttnc aaagctgggt ccagttagt 60
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gaataatggg nggntctatc tactggacan cngtgactta tggagcagtg acngngatgc 180
aggttgtagg ccataaaaga nggctggang ttatggagcc gagctgacct tttatttctt 240
ttgattggac ttcct 255

<210> 815
<211> 255
<212> DNA
<213> Ratte

<400> 815
atggagaagt ttgcctccta ctgcctcact gaaccaggaa gtgggagtga tgctgcatct 60
ctcctgacct cagctaagcg acaaggagat cattacatcc tcaacggctc caaggccttc 120
atcagtgggg gaggtgagtc agacgtctat gtggtcatgt gcagaactgg tggatcaggc 180
cccaaaggta tctcctgcat agttgttgag aaaggaaccc ctggcctcag ctttggcaag 240
aaggagaaga aggtg 255

<210> 816
<211> 255
<212> DNA
<213> Ratte

<400> 816
 acttcttcaa ataacagagg ggatcctgtg cacactgcaa tgttagcact gcctccataa 60
 agcatcaatt aagaaaggcc caagagtagg atgctgttcc ttttaaaata attttaaata 120
 tattaacttt cctaaggcag attttgtgtg aggcgtgttg aataggtagc tgctaccgct 180
 gccaaagaac ggtgcttgga aggggctgtc tgttctgggc agttggagtcc ggagggtaaa 240
 tcccgtaggg tcaag 255

<210> 817
 <211> 255
 <212> DNA
 <213> Ratte

<400> 817
 acttgagtta tttgggtttg ttcacctgtt tccagagatt tttggctctt tgggcagaag 60
 cccattgacc agactgtggg ccactcttagt ctgcatggag aggtggcagc cggagtgggt 120
 gtggccctgg ctaccaagcc cctgacagcc cgttaccagg aggatgggtg ttttgacttt 180
 cttcactcaa aaccagtga gttgacacag tggctgctgg ttcactgtcc catgaaactg 240
 cttctgggtg ggtgc 255

<210> 818
 <211> 255
 <212> DNA
 <213> Ratte

<400> 818
 actcggcttc cttgctttag ggatggctca cccacctcct ctgttccgaa actctcaggg 60
 gagctgctct cctgaagcac gagctccaca ccgcttgggtg ggagaggagc ctccgggtcc 120
 tctgagagct tctccctcct ctcctcatga atgggagatg atggagaccg cagggtgctg 180
 tctggagact tgctctgtgt cttgcccctc tgtattccat tttctatgat tcgacgagt 240
 ccagcaaggg gacaa 255

<210> 819
 <211> 255
 <212> DNA
 <213> Ratte

<400> 819
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 aaaaccccag tgctatcgcc aagcaagtga acaccgagcc tgtgaaaaga aacanactat 120
 gttacaagcc ataccttaat tatttcagac nataaaaaaa aatgaacaga aacagaaaat 180
 caaactttta tctcatgntc tttttcccta gaaaattaaa ctaagaataa aaggcatttg 240
 taaaggcaat angnt 255

<210> 820
 <211> 255
 <212> DNA
 <213> Ratte

<400> 820
 actttgaata cagcgatgcc cacaaagtgc aaaatacaaa gataactgca ttccattgca 60
 gcaactgttcc aacacccctc tgagtcaaat atgggcatga cagtgttta gatgcacgaa 120
 actaccttga aaaatgctac cagaaactat gtcgggtgtg ataacgagtg ttaaactctg 180
 ctaaaaagag cctgtcacat ttgccacagc ataaaaatca ccttgggtcaa ggacaggcac 240
 atgagtgagg cctcg 255

<210> 821
 <211> 255
 <212> DNA
 <213> Ratte

<400> 821
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ccgatggggcc atcattgggt ggctcctgac aacatgcacg tccaatgttg ctgcctccaa 180
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 gaacatagag ccagc 255

<210> 822
 <211> 255
 <212> DNA
 <213> Ratte

<400> 822
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 gccctctggag gtgttacttg gtgtggccac aagctcataa gctggagaaa cccacctctg 120
 gagatgtcag gtaggaagct gaactgttct ggcttcagct ggattcgaaa gtaagtctct 180
 atagattgnt tctgtgagag actttctcct gcagtaggac gaccacggtt ggggttccag 240
 gaccagaatg ccccc 255

<210> 823
 <211> 255
 <212> DNA
 <213> Ratte

<400> 823
 acacttctta canggcgact tctagatcta cnatgatgtc actttntctt ggaatattnc 60
 tgcctctgtg actaggngct tctccannca tgaacccnna atntnchnag aagtgnngna 120
 nnatgnncnc gtnggagctc tgatgccnt ntttcaagnc ttcttcacca tangnatnat 180
 actgttntcn gnnttcacta tctgacagaa cctcataagc agcaccana tctgtgaatt 240
 gtctcctggg ctagg 255

<210> 824
 <211> 255
 <212> DNA
 <213> Ratte

<400> 824
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 ctctgcctcc agtct 255

<210> 825
 <211> 255
 <212> DNA
 <213> Ratte

<400> 825
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 gctatcattg agcatgttcg agacggcagt gtgggtccggg ccttgctcct tccggatcac 120
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 cttcagagag atgtt 255

<210> 826
 <211> 255
 <212> DNA
 <213> Ratte

<400> 826
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 ctttggcctc cagtc 255

<210> 827
<211> 255
<212> DNA
<213> Ratte

<400> 827
acatgtaaat gactgtttct taaccgcaac ttaactaccg agcaaaaaat ttataaaagct 60
gcaaaaaacc aaaaagcaaa caaacaaaaa ccagctttca gcattacatt ctgggaaact 120
gaagtgtctg atcttattca aagtttttagt tctctttttt agttactaca atactgataa 180
acaggatata ctttatatgg atcagatagc caggatataa ttcttgtagt tgaataacttt 240
cattaaagca aaaga 255

<210> 828
<211> 255
<212> DNA
<213> Ratte

<400> 828
accagcgcaa agcaggcttc ctgggtgttg cagtattatc tgacgggtgct ggtgaccaca 60
tcagacaaaag actgctatac ccactgctgc agatcgtgtg caagggcctg gatgacccct 120
cacagggtgt tcgaaatgct gctctgtttg ccttgggcca gttttcagag aacttacagc 180
cccataccag cagctattcc gaggaggtaa tgcccttgc ccttacctac ctgaagtcaa 240
gtgcctatgg gaaac 255

<210> 829
<211> 255
<212> DNA
<213> Ratte

<400> 829
caagctttttt tttttttttt tttttttttt tttttttttt tttttttttt tggcctactt 60
nacnannccc ttnnnnntc ncacctnanc cacnctgat cntctncact ncngatnate 120
ncgtgccttg ncnctgaggt cncctcanna gtnntacgta atnctcctct nnttgcccn 180
gaaccacctn ttcagantac ttnonncnc atatcntcan ctattcccnt gtnngtaant 240
gnccctgctt cnta 255

<210> 830
<211> 255
<212> DNA
<213> Ratte

<400> 830
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aacctgtggg tctcaagtgg agcggcacaa agccaaggca ccagcgcat tcaagtagcag 240
gatatatcca tctta 255

<210> 831
<211> 255
<212> DNA
<213> Ratte

<400> 831
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tcaattttat aaaaaaagng taanatttca atctgttaan atttgacttg taagcttttt 120
acacatttct attttttttca anattttaaaa aacncaagga aaatgaaana attttttttc 180
canaccactt tatctgaatc actgaaatta aatgaagcct gnggcctana ctcagggggc 240
taaatngttt tttga 255

<210> 832
<211> 255
<212> DNA
<213> Ratte

<400> 832
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 aaaacgcgga tcagagcctc atcaggaagt ggatcgccga cctgccttcc atgcagctca 120
 acaggattct agacctgctg ttcattctgt tctcctgctt tgaatacaag ggaaagcaga 180
 gttctgacaa agtcagtaac caggctctgc agaagtcagg agatgtcaag gccaaagtgg 240
 aagaagccct gctcc 255

<210> 833
 <211> 255
 <212> DNA
 <213> Ratte

<400> 833
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 ccacactgat gcttgggtct atctcaccct tgtcccgagc acctctctat cgactgccat 120
 gcttttagatc taagtgaata atggcctttt agtaaatctc caattctgnt tcacattgtc 180
 tgtccatgaa attcttttct ctgtcaaaagc cgaaggctct agtgccctcg tctgcgttgc 240
 ccacaaccgc gtgag 255

<210> 834
 <211> 255
 <212> DNA
 <213> Ratte

<400> 834
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 ttgggactgt gatctccaga acctgctaata ctcaagattct cctctggagt ttctccagggt 180
 ctcaagctcc atttctgagc ctcaagctggt ctggaatcca ggtctctggc ctctgtctgg 240
 ctctgcttca gtctc 255

<210> 835
 <211> 255
 <212> DNA
 <213> Ratte

<400> 835
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 agtctgttcc ttaggactgn ntaancatcc aggcctatgcc tgccagagcc tacatgntca 180
 ggctgncctgg gaatgagcac ccagctctgg cccagctccct gaatcatgtg gcctgagggg 240
 aagcactggc ctcca 255

<210> 836
 <211> 255
 <212> DNA
 <213> Ratte

<400> 836
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 ggaccacgat gaacactcta attctgacag tgtccacact ggctatgagc ccactcncct 120
 gctcgaggga ctnaatggac tacgggctgt ctcccagct atcccatcgg ctcccctcta 180
 tnaggaaatc acctactcag gcattcttcag acggctcttn ccangccagn tgtcccttgc 240
 tggactcgat cgaat 255

<210> 837
 <211> 255
 <212> DNA
 <213> Ratte

<400> 837
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 ccattggtgga agaaggtgag gaggntcatg agccaagaaa cagaaatgga agcanaagag 120
 gaaactgggt ctgttcaagc taacctcaen cccagtccaa cngatgccag cctgagtcaa 180

gagaccccaan cttctcagcc tgactgctcc aatcagacgg aggctgcctc cagtcacaca 240
gaagataccct ctgct 255

<210> 838
<211> 255
<212> DNA
<213> Ratte

<400> 838
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agtcttaatg ctgggntctg ntaaaactga aggactaagc aggcagttac cnaanttncg 120
gcttgagcac tgnagacnct caccatttnc cgaatcactc anaaaagnat aacattccct 180
ttttcttggg ttacttacag aatctggcca aaagctaagc tcacttttcc tgatgcttca 240
ggcttctcac aggtc 255

<210> 839
<211> 255
<212> DNA
<213> Ratte

<400> 839
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atgggtggat gcacttgccc acactgggnt tactccatat ttattctgca ngaatgcctt 120
gtnttggncat ctgtcantga ntctgcctgt ggnngcaga tncctggggct tannacant 180
cttccaagtg tcgttaagta atagcaaatn ttccagatca ttggcttgta acttttttgc 240
tggaattcct gagac 255

<210> 840
<211> 255
<212> DNA
<213> Ratte

<400> 840
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agcagcagca gcagctgaaa cgagggtgctt ggtgatagga aggctgggccc tctggaggct 120
ctagaacgga gatcaagtcc tggtaattta agagatcaga gccctaaggg aagagagtca 180
ngagaagaga ggctaagtcc cagggaggcc agagatagga angctggncg ataggaggaa 240
cccaaagagt caagt 255

<210> 841
<211> 112
<212> DNA
<213> Ratte

<400> 841
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aaagcanaaa ggtaaaggaa gaagagacac aagaggggan agacctgann gt 112

<210> 842
<211> 255
<212> DNA
<213> Ratte

<400> 842
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tcccgtgaat acattctcaa agcaggagat aaggcgggtg tggaagggtga gacgctgaac 120
ctgtgcacag acacagcccc agacacctg gccacaaggg cagaggctcg agtagcagcc 180
cgggtgcctg tgggtgatgg tgctttggna gcagctagac agtgaaagtc aggaaaggcc 240
tcggnaaccac gtnac 255

<210> 843
<211> 255
<212> DNA

<213> Ratte

<400> 843
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gagaccagaa actgcacagg gaattttcct aaattttcaaa cgacttttgg aattcaacca 120
agggaagtgt cctttttgctg ctgcacagat tggaaactcc tttagaaatg agatctcgcc 180
ccggtctgga ctgatccgag tcagggaatt cacaatggca gagatcgagc actttgtaga 240
tcccactgag aaaga 255

<210> 844

<211> 255

<212> DNA

<213> Ratte

<400> 844
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ataccccana aggccaggaa gccccagata gggatgaggt atacacaatc cccaactctc 180
tgaagcgaag tgagtcacca cagctgactc agatgctttg tcatgtcatg aacagcctca 240
gcagattgcc atcaa 255

<210> 845

<211> 255

<212> DNA

<213> Ratte

<400> 845
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tctctggaag ctgtgggagc agcctctgag gcactagctc ctgatgaagt tccacggata 180
ggggccacca tatgggctgc ctttgccctca gctctattgn cgagtagcca actctgagt 240
cctgctttcc catat 255

<210> 846

<211> 255

<212> DNA

<213> Ratte

<400> 846
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gntaacnngn ngctncattc ngncancaga cctaannntt tacagctaac ttactttnac 180
agnnntngat naaatagntn ccnnntacaa tgnmcaaggc ttttagtcnc taaggaattt 240
aaatggnatc ttgaa 255

<210> 847

<211> 255

<212> DNA

<213> Ratte

<400> 847
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ttccctcttt aatggtgctc tagatcacag ccattggccat gaagaccatt gccatagtca 180
cggagccaaa catggaggtg cacacagcca tgaccatgac catgctcatg gacatgggca 240
cttgcatccc cacga 255

<210> 848

<211> 255

<212> DNA

<213> Ratte

<400> 848
actnttttnaa cacggngccc atcctatccc ngngncgaca gacaaagagg catngcttct 60

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gggggcccagg ctggctgntg actctcangg gctgcatggg ctgacaaatg atagngaggg 120
gngtagtctc cccaagtcct tgatcctcat actgncgccc nccaaacgcc ccatacgtcaa 180
angcgagtgc gctggatgat accgtattca agatagaaca ggaaccaagg aagatccagg 240
tgctacactc atcag 255

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<210> 849
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 849
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gcttgacgag tagactgcag ctcttgggag atggcgggcg tgtgccttac ggtgaacgcc 120
ggaaaccctc cactggaagc tctgctggca gtggagcatg tgaaaggaga tgtcagcatt 180
tctgtggaag aagggaagga gaatcttctt cgggtttctg agagtgtgtt gttcactgac 240
acaaattcaa tcctg 255

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<210> 850
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 850
acaagctttt tttttttttt tttttttttt tttttttttt tccanatat ttaatgaattt 60
ganaatcatg tanccatatt ccatgaaatg ngattacctg nggtgnaggc tgaagcccta 120
ctgaggcaaa caaatgcata acaagataag taaaagcctt atgcanaagn atttctgttc 180
ttacctgcta caatgtagcc tngatgtaa taacacagata aataagacag tctnttggat 240
ttttctaatt tatag 255

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<210> 851
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 851
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tgagaatgct gctgtttgtg atgaaattgc tegtcttgag gaaaaattcc ttaaagcaaa 120
ggaggaaaaga agataactgc tgaagaagct cctccagatc catgctctaa ctgaagggga 180
accacaggct gccgctcctt cccacagctc cagtttgccc ctggcttatg gtgtcaccag 240
ctctgtggga accac 255

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<210> 852
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 852
acctttccca tgcctaccag tggaggcatt cagaccagaa aagcaagcca gcaagtaaca 60
ttcttaaggc tagagaaagc cagttgtgct gctgcatacc ctgagacaaa gaggatcctt 120
tgccagatag agagcctgag acaccaggcc actctccaca aactagatac atttaaaagt 180
tacttgggtc accagggtgtg gtagtgcatt ctttagttct agtgcttggg ctggcagctc 240
gagaccagca tgcac 255

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<210> 853
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 853
acctatgtag aaagggtcaa acttcccttt gctgaagaga agaagggttat acagagacat 60
caatgcccac gtcttcacct tcacaatcac atcctagaga acgataagtc agaacagaat 120
tgctctggcc agggatcttt tatgttgaca aaatatgttt gcaatatattg aatctccaga 180
tcgggaattc ccaggctgaa attgtttgtg tcagaatttt tatcttaattg tttcaagaat 240
gaggtagctt acatt 255

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<210> 854
<211> 255
<212> DNA
<213> Ratte

<400> 854
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gttggaaatca aagagactcc tgcaaatctt gccaaactcc tgaccaggat gtgtctgaag 120
tcagaagtca taggtgatgg caatcagatt gaggttgaaa tccctccgac cagagccgat 180
gtcatccatg cgtgtgacat tgtggaggac gcagctattg cttatgggta taacaacatt 240
cagatgactc tcccc 255

<210> 855
<211> 255
<212> DNA
<213> Ratte

<400> 855
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aaagcaggct gcttctctcc caaagtcact cgtaaagaaa aggtccgaag atctctccgt 120
ctgaaattta gtctgaggaa gaacggagat tcaaattggat gttctgtcat caatagacat 180
gaaaatgttg gtccagcact agcgaatcag cagaatctaa aaaataggat tgagtctgta 240
aaaacgggtc tgctt 255

<210> 856
<211> 255
<212> DNA
<213> Ratte

<400> 856
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cccaacagca aacaccgcca aggtcacatc aataggagg ctcattgttc cattggatgc 120
cttccactct ctgaaatagc gctctgccct ctgcacgcag agctgatacc tgtgcacaca 180
tgctaggagt aagagctggc tcttgagcat cctctctgag acagagcctt catctgtcca 240
ggtctgctta ttaat 255

<210> 857
<211> 222
<212> DNA
<213> Ratte

<400> 857
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ttgtcctgca ataggcagag ctatcacgtc caggaaaaat gaggggaacc agagggcagc 120
ngagatccaa atacagnatt caaaggtaat tggncagtg gtgcctggng aggaggaagg 180
ggatgatact ccagggntag ccattctcct tcgggggtgt gt 222

<210> 858
<211> 255
<212> DNA
<213> Ratte

<400> 858
atggccaggc ttggctccag gtaggatgga tttcactgga agcgggagct tgctccctct 60
gggactctga atgggcttat agtcaagacc tttaatcatg ctaagagcca gctccagttt 120
gtggttacac aaaagctgtg gagtctgttc ctcagaatag tagtcacact ttacaagttc 180
tttcgaactt ctctccgttt cctcatcttt ctgttgtgga ggactagcct ggacactagc 240
atccagagat tccac 255

<210> 859
<211> 255
<212> DNA
<213> Ratte

<400> 859
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 cagcacagct ctcagtcggg ccttaggttt attaaggact cactgaaaca gattcttgag 120
 gagagtgact ctaggcagat cttttacttc ttgtgcttga atctgctctt cacccttctg 180
 gagttgttct atggagtgtc caccaacagt ctgggcctga tctcagacgg attccacatg 240
 ctctttgact gctcc 255

<210> 860
 <211> 255
 <212> DNA
 <213> Ratte

<400> 860
 actccataat ggatgtgagc cagagtgaag gcagcagtga gtgtgtaaag gagaacactc 60
 tcaaggcggg aggttgttgt gcctacgac acagttgccg cgaccaagaa gagaggaagc 120
 agcaaccagt tcaaagtggg gcaccgtgtg ctgctcattt ggcaaacgat tagctgacat 180
 gtgatattgg caaaagctgt tccgaccatg aagtagaata ttctaggggt catcttctaaa 240
 atatctgaag gtgac 255

<210> 861
 <211> 255
 <212> DNA
 <213> Ratte

<400> 861
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 ctcnacaata ganctgaagc acaggcanc ccatatgggtg cccctatccg nggaacttna 120
 ttaggancta gngcctnana anctgctncc acagattnca nanagggcct agctgaggnc 180
 agngaaacac aaggcanggg ccttgaagcg gngctgncaa aagcctcnga agctaccgtg 240
 tgnnccnacr atagc 255

<210> 862
 <211> 153
 <212> DNA
 <213> Ratte

<400> 862
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 cagacctgat ggactctgac ttgaagcctg ccaacctcgt cagcacgtcc cagacctcc 120
 ggactccttg ctatcggccc ttgcttccct cct 153

<210> 863
 <211> 134
 <212> DNA
 <213> Ratte

<400> 863
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 tgaggaaagt tctggaatat gatgcttaaa taatgcatta tatccagtg tgatgtgtgc 120
 tttggctcgt tagt 134

<210> 864
 <211> 255
 <212> DNA
 <213> Ratte

<400> 864
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 atcgctggct gacagatctg aaatggaatg tctccaatgg cagtgtctcc cttctgcccc 120
 cctttggagc aagccagtga gcagctgccc tgccggctgt ggggggtggc acctcaggca 180
 gccatcttgg ccagctgctg ttctagcttt gaaatgcgct cgtcttgatt gcagattgtg 240
 tcttttatgg atttg 255

<210> 865
<211> 209
<212> DNA
<213> Ratte

<400> 865
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ccactgccct aaagagtgtg cgggggaaga ggtagtggct tccccactgg ggcttctcca 120
gggggttcgc tccctncagc tgcacgaact tcatgagcgt ctcgaggggc agttccttga 180
cctggaagga gggatgggtc aggagtcc 209

<210> 866
<211> 46
<212> DNA
<213> Ratte

<400> 866
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<210> 867
<211> 255
<212> DNA
<213> Ratte

<400> 867
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tgctgcgcac gcagaagggc gacccccagg tctatgagga acttttcagc tatgcctgcc 120
ccaagtctct gtgcctgtg gtgcctaact acgacaacgt gcacctaacc taccacaaaag 180
agcccttctc gcagcagctg aagggtgttt ctgatgaagt gcagcagcag gccagctct 240
ccaccatccg cagct 255

<210> 868
<211> 255
<212> DNA
<213> Ratte

<400> 868
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gggrttgaaat tcacottaga agggacactg tattcaaaact cagctcaagg cactgtgtgg 120
acgagctgta gccagaactg tcaatactat cttctaaact acccctggcc agaagggttc 180
tacagacagt gattctaggg tgagaactgt cttagtgtgt gcagtatcct gcataaaaaga 240
acaaagctgt catca 255

<210> 869
<211> 255
<212> DNA
<213> Ratte

<400> 869
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tgtgcagatc tccaaacgatt atgaagccaa acttgctatg ttatctttag ctttggaaaa 120
tgcaaaaagct gagattcaaa gaatgcatca agaaaaagac catttcgaag actccatgaa 180
gaaagcatcc atgagggggag tgtgtgcatt aaatctggaa gccatgacca tatttcagaa 240
caaaaatgac gcagg 255

<210> 870
<211> 255
<212> DNA
<213> Ratte

<400> 870
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gcaccgcagc gctgttctgg aagtaattta acacactcat aatgggtgcag ttcttgttgt 120
atggagagag gggggccaca cagatgtcct gaagtgtcac ggtttcattg ttataggacg 180

cagtataact ttcaatggcg atctgtaagt ccagaacctg gtgcagaatc tctttgttca 240
atggaggccc gaagg 255

<210> 871
<211> 255
<212> DNA
<213> Ratte

<400> 871
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tgtattcaat ttcataggag tttctgtagt ccagctctgg ctggcaagaa tcttttctgg 120
gtctttgccc cctagggtca gtattctcca aggcaagggt tgggtctggc tggccactga 180
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agggtctgcg gaaat 255

<210> 872
<211> 255
<212> DNA
<213> Ratte

<400> 872
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tgtcagaaga gatgctgcta tgggtcacgag gggccgggtt cacctgctat tgtcgacgcc 180
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agtaataacct gaata 255

<210> 873
<211> 255
<212> DNA
<213> Ratte

<400> 873
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actccatttg taacttaata gtcttgattt taaatttaca atttgccttg tttgggtattt 180
tgttttaatt tggaaaggat aattggaagt taactgaaat aatggaagt gaatttatac 240
totgcatttt tatat 255

<210> 874
<211> 238
<212> DNA
<213> Ratte

<400> 874
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tcgtcaccaa ggacctaccc tagaccata agaagggcag ttgccactgg agctgctga 180
ggtaggacca ggaaacccca cttagtgtnc ctgcccgggc ggccgctcga aagccgaa 238

<210> 875
<211> 255
<212> DNA
<213> Ratte

<400> 875
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aagaagtggc tacaggagca gaggtggyac atccgcyggc ggccatgtgt agagcagctt 120
tggagtcccc tagaaaatag catcatcnc gagccttnat cctnctngt tgggtggaccc 180
cacttgatcc caagactctg gcccttaacc ctaagaagaa gaattatgag cggcttcaga 240
aagctctgga tagtg 255

<210> 876
<211> 255

<212> DNA
<213> Ratte

<400> 876
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attattctgg atctcgga cctcctgtag cacttagtag ctctagaatg agctgtttta 180
gttgctctag catgtcacca actcctcttg accgatgtag atcacctgga atgctagaac 240
cccttggaag tgcta 255

<210> 877
<211> 254
<212> DNA
<213> Ratte

<400> 877
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agttccaama ttct 254

<210> 878
<211> 254
<212> DNA
<213> Ratte

<400> 878
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aggctcagaa ctccagcmat gcgcnnnaac tcttccagyc cttctaagcc aggagtctca 120
gggctgtccg gaggcagctc tgtcaatgga ggtcgctctt gcctgttaca cactgctcca 180
cgaattagtg aggtcttctg taccacctca gcttctcttc cagccagcac tgtccacacg 240
aggaccccaa aact 254

<210> 879
<211> 255
<212> DNA
<213> Ratte

<400> 879
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ggaaatgggt gtggctacct ccacctgctt tcmcggtgma camgcctgaa gggctgctta 120
gggcttgata cagggctcatt gtgagaagtg tgcaccatga ctccaggactc aacctggcat 180
gcagccaccc agggccatcc cacacatgta tgtgacatgt agacagacac ctgccattgc 240
ctacacgcta ccctg 255

<210> 880
<211> 255
<212> DNA
<213> Ratte

<400> 880
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accacggcgm cmcaccmcysc mycgcnncan nccccanngg ccacargygc tccaggcaca 120
gctgcaagtc ctctcctgag cccgtaagaa agggacccac agtaaaactga ccctgctgca 180
tgggtggcccc aggcactctg gggctgatgg tcttagtata agataaggct gcctcagacg 240
tcttggccaa cccaa 255

<210> 881
<211> 254
<212> DNA
<213> Ratte

<400> 881

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taaaaaamrc agawgarawt gcaannnnngc nccnccaccn nnnnnnnnaa aagagttgcc 120
cgcatggccg tctctcttc cgaataggcc agaattgtcc ttaaggactt tctcaggtgc 180
tctcattga agtctggtgc tttgcctacc aaggatgcc gtgccatggc tacctgcac 240
tttactcttg caaa 254

<210> 882

<211> 255

<212> DNA

<213> Ratte

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